

INDUSTRIAL WASTEWATER PERMIT APPLICATION

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this permit application which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. The completed and signed application is to be mailed within thirty (30) days of your receipt to:

City of Phoenix
Water Service Department
Pollution Control Division
2474 South 22nd Avenue
Phoenix, AZ 85009

<u>FOR CITY USE ONLY</u>
Permit Not Required
<input type="checkbox"/> Class A SIU Permit
<input type="checkbox"/> Class B Permit:
<input type="checkbox"/> Zero Categorical Discharge
<input type="checkbox"/> Hi-strength
<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Pollution Prevention
<input type="checkbox"/> Other
<input type="checkbox"/> Interim Permit
This application is for:
<input type="checkbox"/> New Permit <input type="checkbox"/> Permit Renewal

Attn: _____

SECTION A. GENERAL INFORMATION

Please type or print:

1. BUSINESS INFORMATION

Business

Name: _____

Mailing Address: _____

Business Owner: _____

Mailing Address: _____

Facility Name: _____

Facility Address: _____

Facility Contact: _____ Telephone No: _____

Name of Signing Official: _____

Title of Signing Official: _____

2. PROPERTY INFORMATION

Property Address: _____

Property
Owner: _____

Mailing Address: _____ Telephone No _____

SECTION B. PRODUCT OR SERVICE INFORMATION

1. List raw materials used:

2. Brief description of manufacturing or service activity conducted on premises. List **all** processes and production rates.

3. Indicate applicable Standard Industrial Classification (SIC) Codes(s) for all activities. (If more than one applies, list in descending order of importance.)

a. _____ b. _____ c. _____ d. _____ e. _____ f. _____

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. SHIFT INFORMATION

Shift start times: _____ 1st; _____ 2nd; _____ 3rd.

Average number of employees per shift per day:

	Sun	Mon	Tue	Wed	Thur	Fri	Sat
1st Shift	_____	_____	_____	_____	_____	_____	_____
2nd Shift	_____	_____	_____	_____	_____	_____	_____
3rd Shift	_____	_____	_____	_____	_____	_____	_____

2. Is production seasonal or intermittent? Yes or No
 Do operation(s) shut down for vacation, maintenance or other reasons? Yes No

If Yes, describe monthly manufacturing, service activities, and shutdowns below.

January	February	March	April
May	June	July	August
September	October	November	December

3. Manufacturing processes which generate wastewater or have the potential to generate wastewater:

Is The Wastewater Discharge

Process Description:	Batch	Continuous	Both	% Batch	%Continuous
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

4. Are any process changes or expansions planned during the next five (5) years that would alter wastewater volumes or characteristics? Consider production, manufacturing, water reuse or conservation, wastewater treatment changes or any other change which would effect the volume or type of discharge.
____ Yes _____ No (If "No", skip item C-5).

5. Describe these changes and their effects on the wastewater volume and characteristics: (Attach additional sheets if needed.)

6. Are any water reclamation or conservation systems, material recovery or recycling systems in use or planned? ____
Yes _____ No (If "No", skip item C-7).

7. Briefly describe conservation, recovery or recycling process(es); substance recovered or recycled; percent recovered, recycled or conserved; and the remaining concentration in the spent solution. Submit flow diagram for each process: (Attach additional sheets if needed.)

8. Have any material substitutions, for the purpose of eliminating or reducing wastes, been implemented or planned?
____ Yes _____ No (If "No", skip item C-9).

9. Briefly describe the material substitution and the manufacturing process the substitution material is used in. Include the economic and environmental benefits (i.e., dollars saved, amount of waste eliminated, waste handling modifications, etc.) derived from this substitution. (Attach additional sheets if needed.)

10. Has a Pollution Prevention Plan been implemented? (If so provide a copy with this Application)
_____ Yes _____ No

SECTION D. WATER USAGE

1. Is water used in manufacturing? _____ Yes _____ No

2. Water source (check where appropriate): Metered Unmetered

Public Supply _____
Private Well _____

3. List all water account numbers:

1) _____ 3) _____ 5) _____

2) _____ 4) _____ 6) _____

4. Describe in detail any treatment processes used for incoming raw water and which manufacturing process this treated water is used for:

5. List the sources and mode of entry for any liquids used in the manufacturing process that are discharged to sewer and the average daily volume of the discharge.

<u>Liquid Description</u>	<u>Source</u>	<u>Mode of Entry</u>	<u>Process Use</u>	<u>Volume Discharged</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. List water consumption in plant processes: (Daily average based on 12 months of City water bills. For a new facility provide the best engineering estimate.)

Non Contact Cooling Water _____ gallons per day
Boiler Feed _____ gallons per day

Manufacturing Process/ Business Operations	_____	gallons per day
Personnel Sanitary Use	_____	gallons per day
Contained in product	_____	gallons per day
Landscaping/Other	_____	gallons per day
TOTAL	_____	gallons per day

SECTION E. WASTEWATER DISCHARGE

1. List average volume of water discharged to: (For a new facility provide the best engineering estimate.)

City sanitary sewer	_____	gallons per day
City storm sewer	_____	gallons per day
Natural outlet (see glossary)	_____	gallons per day
Waste hauler	_____	gallons per day
TOTAL	_____	gallons per day

Is the discharge to sewer: _____ Intermittent _____ Steady

2. List average volume of water lost to:

Food Preparation	_____	gallons per day
Evaporation	_____	gallons per day
Contained in product	_____	gallons per day
Irrigation	_____	gallons per day
Other _____	_____	gallons per day
TOTAL	_____	gallons per day

What size is the sewer tap to be used for the process discharge? _____

Where does this tap connect to the City sewer main?(Distance and direction to the nearest City manhole)

2. List the flows from individual manufacturing processes in gallons per day (GPD)

DESCRIPTION OF PROCESS	AVERAGE FLOW GPD	MAXIMUM FLOW (GPD)	TYPE OF DISCHARGE (BATCH, CONTINUOUS, NONE)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

4. Provide on a separate sheet(s) a schematic drawing showing the following: (1) all wastewater flows and types (2) location of all wastewater treatment system(s) and devices, including interceptors, traps (grease, sand, oil, grit or other), ion exchange, filtration or neutralization systems, or any other wastewater treatment device in use; (3) sampling locations; (4) connection(s) to the sanitary sewer; (5) location of all floor drains; (6) location of chemical storage area(s); (7) location of berms and other spill control devices; and (8) location of waste holding area(s). Include construction drawings if available.

5. Are any of the following located on the property?

Storm sewers ___ Yes ___ No Dry wells ___ Yes ___ No
Private wells ___ Yes ___ No Abandoned water wells ___ Yes ___ No

If Yes to any of the above, please provide on a separate sheet a schematic indicating the location(s) of each in relationship to the building(s) and the process(es) conducted on the premises.

6. Does the manufacturing process(es) ever generate any unused liquid product(s) (ie., bad batches, production over runs, product returned from customers, etc.) ___ Yes ___ No If "Yes", describe process, product, average volume per day and the disposal method.

SECTION F. WASTEWATER TREATMENT

1. For all waste streams which are treated before discharge, describe the wastestream and the types of pretreatment.

2. Does the facility have *any of* the following treatment devices:

___ Grease trap ___ Grease interceptor ___ Solids interceptor ___ Acid neutralization
___ Sand/oil interceptor ___ Lint interceptor ___ Silver recovery ___ Evaporators
___ Ultra filtration ___ Reverse Osmosis Other (list) _____

3. Provide a separate schematic, with flow paths and manufacturer's flow capacity ratings, for all pretreatment systems or equipment. Include the sewer tap used by the treatment system and the location of the sewer main where the tap connects.

4. If any form of new or additional *wastewater* pretreatment is planned for this facility within the next five (5) years describe the process waste stream the type of treatment.

Expected Operational date:_____

4. Is there a Slug Control (SCP) in effect for this facility? _____ Yes _____ No (If "Yes", please attach)
5. Is there a Toxic Organics Management Plan in effect at this facility?_____ Yes_____ No (If "Yes", please attach)

SECTION G. DISCHARGE CHARACTERISTICS

1. Are any of the toxic pollutants listed below being used, stored, or discharged from this facility? If so, provide the information below and note whether the discharge is to the sanitary sewer, waste hauler, or other.

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
1. Acenaphthene					
2. Acrolein					
3. Acrylonitrile					
4. Benzene					
5. Benzidine					
6. Carbon Tetrachloride (Tetrachloromethane)					
7. Cholorbenezene					
8. 1,2,4-trichlorobenzene					
9. Hexacholorobenzene					
10. 1,2-dichloroethane					
11. 1,1,1-trichloroethane					
12. Hexachloroethane					
13. 1,1-dichloroethane					
14. 1,1,2-trichloroethane					
15. 1,1,2,2-tetrachloroethane					
17. Bis(2-chloroethyl) ether					
18. 2-chloroethyl vinyl ether (mixed)					
19. 2-chloronaphtalene					
20. 2,4,6-trichlorophenol					
21. Parachlorometa cresol					
22. Chloroform (Trichloromethane)					
23. 2-chlorophenol					
24. 1,2-dichlorobenzene					
25. 1,3-dichlorobenzene					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
26. 1,4-dichlorobenzene					
27. 3,3-dichlorobenzidine					
28. 1,1-dichloroethylene					
29. 1,2-trans-dichloro-ethylene					
30. 2,4-dichlorophenol					
31. 1,2-dichloropropene (1,3-dichloropropene)					
32. 2,4-dimethylphenol					
33. 2,4-dinitrotoluene					
34. 2,6-dinitrotoluene					
35. 1,2-diphenylhydrazine					
36. Ethylbenzene					
37. Flouranthene					
38. 4-chlorophenyl phenyl ether					
39. 4-bromophenyl phenyl ether					
40. Bis (2-chloroisopropyl) ether					
41. Bis (2-chloroethoxy) methane					
42. Methylene chloride (dichloromethane)					
43. Methyl chloride (dichloromethane)					
44. Methyl bromide (bromomethane)					
45. Bromoform (Tribromomethane)					
46. Dichlorobromomethane					
47. Chlorodibromomethane					
48. Hexachlorobutadiene					
49. Hexachlorocyclopentadiene					
50. Isophorone					
51. Naphthalene					
52. Nitrobenzene					
53. 2-nitrophenol					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
54. 4-nitrophenol					
55. 2,4-dinitrophenol					
56. 4,6-dinitro-o-cresol					
57. N-nitrosodimethylamine					
58. N-nitrosodiphenylamine					
59. Pentachlorophenol					
60. Phenol					
61. Bis (2-ethylhexyl) phthalate					
62. Butyl benzyl phthalate					
63. Di-N-butyl Phthalate					
64. Di-N-octyl Phthalate					
65. Diethyl Phthalate					
66. Dimethyl Phthalate					
67. 1,2-benzanthracene (Benzo(a)anthracene)					
68. Benzo(a)pyrene (3,4-benzo-pyrene)					
69. 3,4-benzofluoranthene (benzo(b)fluoranthene)					
70. 11,12-benzofluoranthene (benzo(b)fluoranthene)					
71. Chrysene					
72. Acenphthylene					
73. Anthracene					
74. 1,12-benzoperylene (benzo(ghi)perylene)					
75. Fluorene					
76. Phenanthrene					
77. 1,2,5,6-dibenzanthracene (dibenzo(h)anthracene)					
78. Ideno(1,2,3-cd--pyrene(2-3-o-phenylene pyrene)					
79. Pyrene					
80. Tetrachloroethylene					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
81. Toluene					
82. Trichloroethylene					
83. Vinyl Chloride (chloroethylene)					
84. Aldrin					
85. Dieldrin					
86. Chlordane (technical mixture & metabolites)					
87. 4,4-DDT					
88. 4,4-DDE (p,p-DDX)					
89. 4,4-DDD(p,p-TDE)					
90. Alpha-endosulfan					
91. Beta-endosulfan					
92. Endosulfan sulfate					
93. Endrin					
94. Endrin Aldehyde					
95. Heptachlor					
96. Heptachlor epoxide (BHC-hexachlorocyclohexane)					
97. Alpha -BHC					
98. Beta-BHC					
99. Gamma-BHC (Lindane)					
100. Delta-BHC (Delta-Hexachlorocyclohexane)					
101. PCB-1242 (Arochlor 1242)					
102. PCB-1254 (Arochlor 1254)					
103. PCB-1221 (Arochlor 1221)					
104. PCB-1232 (Arochlor 1232)					
105. PCB-1248 (Arochlor 1248)					
106. PCB-1260 (Arochlor 1260)					
107. PCB-1016 (Arochlor 1016)					
108. Toxaphene					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
109. Antimony (Total)					
110. Arsenic (Total) and Arsenic Compounds (list)					
111. Asbestos (Fibrous)					
112. Barium					
113. Beryllium (Total) and Beryllium Compounds (list)					
114. Cadmium (Total) and Cadmium Compounds (list)					
115. Chromium (Total) and Chromium Compounds (list)					
116. Copper (Total) and Copper Compounds (list)					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
117. Cyanide (Total) and Cyanide Compounds (list)					
118. Lead (Total) and Lead Compounds (list)					
119. Mercury (Total) and Mercury Compounds (list)					
120. Molybdenum (Total) and Molybdenum Compounds (list)					
121. Nickel (Total) and Nickel Compounds (list)					
122. Selenium (Total) and Selenium Compounds (list)					

REGULATED TOXIC POLLUTANTS	AMT OF CHEMS ON SITE LBS/GALS	TOTAL AMOUNT DISCHARGED LB/GALS/DAY	AMOUNT TO SANITARY SEWER	AMOUNT TO WASTE HAULER	AMOUNT TO OTHER (DESCRIBE)
123. Silver (Total) and Silver Compounds (list)					
124. Thallium (Total) and Thallium Compounds (list)					
125. Zinc (Total) and Zinc Compounds (list)					
126. 2,3,7,8-Tetrachloro-dibenzo-p-dioxin(TCDD)					
127. Sulfides					

2. Are any waste liquids or sludges generated and **not** disposed of in the sanitary sewer system? Yes No

If "No", skip the remainder of Section G. If "Yes", complete the following for all wastes **not** disposed of in the sanitary sewer.

Wastes	Estimated Quantity Per Year (indicate units)	Disposal Method (i.e. landfill, recycle, sale, evaporation, incineration, ect.)
Waste solvent		
Oil/Grease		
Process baths		
Pretreatment sludge		
Inks/Dyes		
Thinner		
Paints		
Acids and Alkalis		
Left over or extra product		
Pesticides		
Other (specify):		

3. If an outside firm removes any of the above checked wastes, give the names(s) address(es) and permit numbers of all waste haulers:

1. _____ 2. _____

 _____ zip code _____ zip code _____
 Permit Number (if applicable): _____ Permit Number (if applicable): _____

4. Do any of your wastes require Resource Conservation and Recovery Act permits? Yes No

If "Yes", please specify which wastes and provide your permit number and issuing authority name:

SECTION H. ENVIRONMENTAL CONTROL PERMITS

List all environmental control permits held by or for the facility.

DESCRIPTIVE TITLE OF PERMIT	PERMIT NUMBER	ISSUING AGENCY	EXPIRATION DATE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION I. LOCAL AND FEDERAL CATEGORICAL LIMITS

1. Is the facility meeting applicable federal categorical pretreatment and local discharge standards **99 percent** of the time?
 Yes No

A. If "Yes", provide rationale, such as a description of methods used to achieve and maintain compliance; and the analytical results of recent effluent sampling.

B. If "No", how does the facility plan to meet the requirements?

1. Are additional operation and maintenance (O&M) procedures required to achieve compliance?

____ Yes ____ No

If "Yes", describe the changes which will be made to achieve the standards.

2. Are new or additional pretreatment facilities required to achieve compliance?

____ Yes ____ No

If "Yes", describe the facilities or equipment which will be installed:

3. Is this an application for a permit renewal? ____ Yes ____ No If "Yes", please answer the following question: Within the last year, has your business made any changes in its operation that have increased or will increase the concentration, volume, or other characteristics of your discharge into the City sanitary sewer?

____ Yes ____ No

If "Yes", describe.

SECTION J. CERTIFICATION

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.

Name of Company

Official: _____

Title of Company

Official: _____

Signature of Company Official: _____

Date: _____

Mailing Address of Company

Official _____

Glossary of Terms

Batch - The quantity produced as a result of an operation.

Categorical Standards - (National/Federal Categorical Pretreatment Standards) - Those standards promulgated by the U.S. Environmental Protection Agency (EPA) under the authority of Section 307(b) and (c) of the Clean Water Act (33 U.S.C. 1317) which apply to a specific category or industrial user and which are published in 40 CFR Chapter I, subchapter N (Parts 405-471).

Continuous - extended or prolonged production without interruption or cessation.

Cooling water - The clean wastewater discharged from any heat transfer system such as condensation, air conditioning, cooling or refrigeration.

Industrial User - A source of industrial discharge.

Discharge - The disposal of any sewage, pollutant(s), water or any liquid from any sewer user into the sewerage system.

Drywell - Also referred to as a shallow drainage well, is any shallow hole dug or bored in the ground to allow surface storm water runoff, excess irrigation flow, or other drainage to percolate into the ground. It is typically constructed as a 10 to 20 feet deep boring of 2 to 4 feet diameter filled with cobbles and rocks and lined with a perforated corrugated metal pipe. They may be found in parking lots or other areas where drainage of storm water is required.

Natural outlet - Any outlet into a water course, ditch, or other body of surface or ground water.

Pretreatment - The physical, chemical, biological or other treatment of any industrial discharge prior to discharge to the sewer, for the purpose of:

- (a) Reducing the amount or concentration of any pollutant; or
- (b) Eliminating the discharge or any pollutant; or
- (c) Altering the nature of any pollutant characteristic to a less harmful state.

Process Wastewater - Any water which, during manufacturing or processing, comes into direct contact with or results from the production of or use of any raw material, intermediate product, finished product, byproduct, or waste product.

Regulated Wastestream - An industrial process wastestream regulated by a national categorical pretreatment standard and/or the Phoenix City Code, Chapter 28.

Sanitary sewer - A sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.

Slug Control Plan - A plan prepared by an industrial user to minimize the likelihood of a spill or slug discharge and to expedite control and cleanup activities should a spill occur.

Storm sewer or storm drain - A sewer which carries storm and surface waters and drainage, but excludes sewage and polluted industrial wastes.

Toxic Organic Management Plan - Written plan submitted by industrial users in accordance with some categorical pretreatment standards as an alternative to TTO monitoring which specifies the toxic organic compounds used, the method of disposal used, and procedures for assuring that toxic organics do not routinely spill or leak into wastewater discharged to the POTW.

Unregulated Wastestream - A wastestream that is not regulated by a national categorical pretreatment standard and is not considered a dilute wastestream.

Wastewater - Any liquid or water-carried pollutant, including an industrial discharge, which is introduced into the sewer from any source.