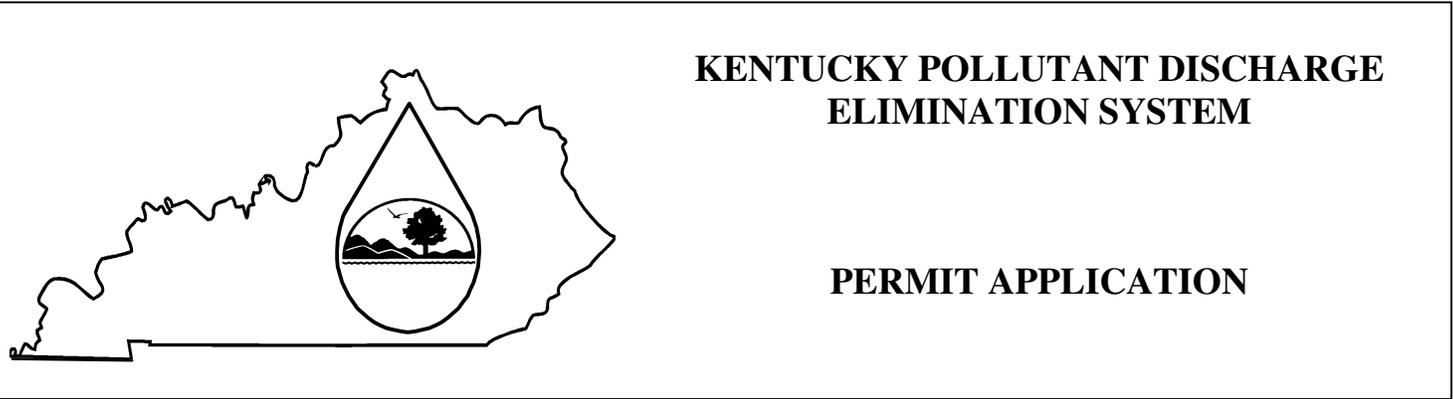


KPDES FORM SC



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact: Surface Water Permits Branch, (502) 564-3410.

NAME OF FACILITY:							
I. FACILITY DISCHARGE FREQUENCY				AGENCY USE			
A. Do discharge(s) occur all year? Yes <input type="checkbox"/> No <input type="checkbox"/> (Complete Item IX for intermittent discharges.)							
B. How many days per week?							
II. A. Give the basis of design for sizing of the wastewater facility (see instructions):							
B. If new discharger, indicate anticipated discharge date:							
C. Indicate the design capacity of the treatment system:				MGD			

III. Outfall Location (see instructions)

Outfall (list)	LATITUDE			LONGITUDE			RECEIVING WATER (name)
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	

Method used to obtain latitude/longitude (i.e. GPS unit, USGS topographic map coordinates, etc.)	
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IV. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (see instructions)

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow (include units)	List treatment components	List Codes from Table SC-1

V. Check the type(s) of wastewater discharged.

- Domestic (60% or more sanitary sewage) Oil field waste
 Noncontact cooling water Other (list):

VI. Does all water used at facility (except for human consumption) flow to a treatment plant? Yes No

VII. Discharge to other than surface waters. Check appropriate location:

- Publicly-owned lake or impoundment Name of lake:
 Publicly-owned treatment works (POTW). Name of POTW:
 Land application of Effluent
 Surface injection (Check term and identify on map) lateral field; sinkhole; sinking stream; deep well
 Closed Circuit (Check appropriate term) Holding tank; Mechanical evaporation; Waste impoundment

VIII. Check the metals present in the discharge if applicable and indicate the quantity discharged per year. (Indicate units).

<input type="checkbox"/>	Antimony		<input type="checkbox"/>	Copper		<input type="checkbox"/>	Silver	
<input type="checkbox"/>	Arsenic		<input type="checkbox"/>	Lead		<input type="checkbox"/>	Thallium	
<input type="checkbox"/>	Beryllium		<input type="checkbox"/>	Mercury		<input type="checkbox"/>	Zinc	
<input type="checkbox"/>	Cadmium		<input type="checkbox"/>	Nickel		<input type="checkbox"/>		
<input type="checkbox"/>	Chromium		<input type="checkbox"/>	Selenium		<input type="checkbox"/>		

IX. INTERMITTENT DISCHARGES (Complete this section for intermittent discharges.)

A. Number of bypass points: _____ (If bypass points are indicated, information below must be completed for each bypass.)

Check when bypass occurs:	<input type="checkbox"/> Wet Weather	<input type="checkbox"/> Dry Weather
Give the number of bypass incidents	_____ per year	_____ per year
Give average duration of bypass	_____ hours	_____ hours
Give average volume per incident	_____ 1,000 gallons	_____ 1,000 gallons
Give reason why bypass occurs:		

B. Number of Overflow Points: _____ (If discharge is from an overflow point, the information below must be completed.)

Check when overflow occurs:	<input type="checkbox"/> Wet Weather	<input type="checkbox"/> Dry Weather
Give the number of overflow incidents:	_____ per year	_____ per year
Give average duration of overflow:	_____ hours	_____ hours
Give average volume per incident:	_____ 1,000 gallons	_____ 1,000 gallons

C. Number of seasonal discharge points	_____
Give the number of times discharge occurs per year	_____
Give the average volume per discharge occurrence	_____ (1,000 gallons)
Give the average duration of each discharge	_____ (days)
List month(s) when the discharge occurs	_____

X. AREA SERVED (see instructions)

NAME	ACTUAL POPULATION SERVED
TOTAL POPULATION SERVED	

XI. COOLING WATER ADDITIVES AND THEIR COMPOSITIONS

Additive	Composition	Concentration (mg/l)

XII. EFFLUENT CHARACTERISTICS

A. Indicate results of analysis for pollutants listed below.

POLLUTANT/PARAMETER	MAX DAILY VALUE	AVG DAILY VALUE	NUMBER OF SAMPLES
BOD ₅			
TOTAL SUSPENDED SOLIDS			
FECAL COLIFORM <input type="checkbox"/> Or E.COLI <input type="checkbox"/>			
TOTAL RESIDUAL CHLORINE			
OIL AND GREASE			
CHEMICAL OXYGEN DEMAND			
TOTAL ORGANIC CARBON			
AMMONIA			
DISCHARGE FLOW			
PH			
TEMPERATURE (WINTER)			
TEMPERATURE (SUMMER)			

B. Frequency and duration of flow:

XIII. 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 AND OFFICIAL TITLE (type or print): Mr. <input type="checkbox"/> Ms. <input type="checkbox"/>	TELEPHONE NUMBER (area code and number):
SIGNATURE	DATE

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

FORM SC -- INSTRUCTIONS

Listed below are explanations of select Short Form C questions. If further information is needed concerning any question, please contact the Division of Water, Surface Water Permits Branch at (502) 564-3410.

I. WHO MUST APPLY

This application is to be completed by services, wholesale and retail trade establishments, and other commercial establishments including subdivisions and schools that propose construction or operation of a wastewater treatment facility or expansion and/or upgrading of an existing treatment plant.

A. Indicate if discharge(s) occur all year. Complete Item IX for any intermittent discharges.

II. BASIS OF DESIGN FOR SIZING THE WASTEWATER TREATMENT FACILITY

A. Give the basis of design for sizing the wastewater treatment facility. Indicate the **actual** number of population served, **actual** number of students for schools, square feet of space, etc. used in determining the size of the wastewater treatment plant.

B. If application is being submitted by new discharger, indicate date of expected commencement of discharge.

C. Indicate the design capacity of the treatment system in million gallons per day (mgd).

III. OUTFALL LOCATION

For each outfall listed, list the latitude and longitude of its location to the nearest fifteen seconds and list the name of the receiving water. Latitude and Longitude readings should be taken at the last point prior to discharge to receiving water. The method used to obtain latitude and longitude should be listed also (i.e. GPS unit, USGS topographic map coordinates, etc).

IV. FLOWS, SOURCES OF POLLUTION AND TREATMENT TECHNOLOGIES

For each outfall provide: (1) a description of all operations contributing wastewater to the effluent, including sanitary wastewater and storm water runoff; (2) the average and design flows contributed by each operation; and (3) the treatment received by the wastewater.

Operations may be described in general terms for storm water. You may use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order of occurrence and you should select the proper code from Table SC-1 and fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you list.

If you are applying for a permit for a privately-owned treatment works, you must also identify all of your contributors in an attached listing.

V. Check the type(s) of wastewater being discharged.

VI. Indicate whether all water used at the facility (except for human consumption) flows to a treatment plant.

VII. Indicate discharge(s) to other than surface waters.

IX. Intermittent Discharges

Indicate the number of bypasses, overflows, and controlled releases that result in point discharges. Items A-C (as appropriate) must be completed for each intermittent discharge indicated.

X. For each area served by the wastewater treatment plant, enter the actual population served at the time of application.

XI. List any cooling water additives (if applicable), their composition, and approximate concentration.

XII. EFFLUENT CHARACTERISTICS

This part must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm water runoff. However, at your request, the Division of Water may waive the requirements to test for one or more of these pollutants based upon a determination that testing for the pollutant(s) is not appropriate for your effluent(s).

A. List quantitative data for the pollutants or parameters listed. The data may be collected over the past 365 days if they remain representative of current operations. Applicant must collect and analyze samples in accordance with 40 CFR Part 136. Grab samples must be used for pH, temperature, oil and grease, total residual chlorine, Fecal Coliform, and E. coli. For all other pollutants, 24-hour composite samples must be used.

New dischargers should include estimates for the pollutants or parameters listed instead of actual sampling data, along with source of each estimate. All levels must be reported or estimated as concentration and as total mass, except for flow, pH and temperature.

B. Describe the frequency of flow and duration of any intermittent discharge (except for storm water runoff, leaks, or spills).

XIII. CERTIFICATION

The certification is to be signed as follows:

Corporation: by a principal officer of at least the level of vice president.

Partnership or sole proprietorship: by a general partner or the proprietor, respectively.

Municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official

TABLE SC-1
CODES FOR TREATMENT UNITS
 (For use with Form SC, Item IV)

PHYSICAL TREATMENT PROCESSES

- | | |
|---------------------------------------|---|
| 1-A.....Ammonia Stripping | 1-N.....Microstraining (Microscreening) |
| 1-B.....Dialysis | 1-O.....Mixing |
| 1-C.....Diatomaceous Earth Filtration | 1-P.....Moving Bed Filters |
| 1-D.....Distillation | 1-Q.....Multimediuim |
| 1-E.....Electrodialysis | 1-R.....Rapid Sand Filtration |
| 1-F.....Evaporation | 1-S.....Reverse Osmosis (Hyperfiltration) |
| 1-G.....Flocculation | 1-T.....Screening |
| 1-H.....Flotation | 1-U.....Sedimentation (Settling) |
| 1-I.....Foam Fractionation | 1-V.....Slow Sand Filtration |
| 1-J.....Freezing | 1-W.....Solvent Extraction |
| 1-K.....Gas-Phase Separation | 1-X.....Sorption |
| 1-L.....Grinding (Comminutors) | 1-Y.....Equalization |
| 1-M.....Grit Removal | 1-Z.....Intermittent Sand Filters |

CHEMICAL TREATMENT PROCESSES

- | | |
|---------------------------------|-----------------------------------|
| 2-A.....Carbon Adsorption | 2-H.....Disinfection (Other) |
| 2-B.....Chemical Oxidation | 2-I.....Electrochemical Treatment |
| 2-C.....Chemical Precipitation | 2-J.....Ion Exchange |
| 2-D.....Coagulation | 2-K.....Neutralization |
| 2-E.....Dechlorination | 2-L.....Reduction |
| 2-F.....Disinfection (Chlorine) | 2-M.....Odor Control |
| 2-G.....Disinfection (Ozone) | 2-N.....Chemical Hydrolysis |

BIOLOGICAL TREATMENT PROCESS

- | | |
|---|-------------------------------------|
| 3-A.....Activated Sludge | 3-K.....Biological Hydrolysis |
| 3-B.....Aerated Lagoons | 3-L.....Post Aeration |
| 3-C.....Anaerobic Treatment | 3-M.....Treatment by Plain Aeration |
| 3-D.....Nitrification-Denitrification | 3-N.....Holding or Detention Pond |
| 3-E.....Pre-Aeration | 3-P.....1-Cell Lagoon |
| 3-F.....Spray Irrigation/Land Application | 3-Q.....2-Cell Lagoon |
| 3-G.....Stabilization Ponds | 3-R.....3-Cell Lagoon |
| 3-H.....Trickling Filtration | 3-S.....4-Cell Lagoon |
| 3-I.....Rotating Biological Contractors | 3-T.....Septic Tanks |
| 3-J.....Polishing Lagoons | |

OTHER PROCESSES

- | | |
|---|-------------------------------------|
| 4-A.....Discharge to Surface Water | 4-E.....Reuse or Sale of Wastewater |
| 4-B.....Ocean Discharge Through Outfall | 4-F.....Temperature Control |
| 4-C.....Reuse/Recycle of Treated Effluent | 4-G.....Eutectic Freezing |
| 4-D.....Underground Injection | 4-H.....Grease Removal |

SLUDGE TREATMENT AND DISPOSAL PROCESSES

- | | |
|-------------------------------------|-----------------------------------|
| 5-A.....Aerobic Digestion | 5-M.....Heat Drying |
| 5-B.....Anaerobic Digestion | 5-N.....Heat Treatment |
| 5-C.....Belt Filtration | 5-O.....Incineration |
| 5-D.....Centrifugation | 5-P.....Land Application (Sludge) |
| 5-E.....Chemical Conditioning | 5-Q.....Landfill |
| 5-F.....Chlorine Treatment | 5-R.....Pressure Filtration |
| 5-G.....Composting | 5-S.....Pyrolysis |
| 5-H.....Drying Beds | 5-T.....Sludge Lagoons |
| 5-I.....Elutriation | 5-U.....Vacuum Filtration |
| 5-J.....Flotation Thickening | 5-V.....Vibration |
| 5-K.....Freezing (Sludge Treatment) | 5-W.....Wet Oxidation |
| 5-L.....Gravity Thickening | |