

Rec'd 9-2-05 DTN



CC-DC  
- Lisa G  
- A. AKridge  
- DN

ERNIE FLETCHER  
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601-1190

[www.kentucky.gov](http://www.kentucky.gov)

LAJUANA S. WILCHER  
SECRETARY

August 24, 2005

Mr. H. J. Schardein  
Metropolitan Sewer District  
700 West Liberty Street  
Louisville, Kentucky 40203-1911

Re: Yorktown Sewage Treatment Plant  
KPDES No.: KY0036323  
Jefferson County, Kentucky

Dear Mr. Schardein:

Enclosed is the Kentucky Pollutant Discharge Elimination System (KPDES) permit for the above-referenced facility. This action constitutes a final permit issuance under 401 KAR 5:075, pursuant to KRS 224.16-050.

Your facility is being issued a permit that is shorter than the normal five-year term in order to synchronize permit issuance by watershed. Implementation of watershed permitting began in the year 2001 and your targeted permit issuance is based upon your location in the watershed basin.

This permit will become effective on the date indicated in the attached permit provided that no request for adjudication is granted. All provisions of the permit will be effective and enforceable in accordance with 401 KAR 5:075, unless stayed by the Hearing Officer under Sections 11 and 13.

Any demand for a hearing on the permit shall be filed in accordance with the procedures specified in KRS 224.10-420, 224.10-440, 224.10-470 and any regulations promulgated thereto. Any person aggrieved by the issuance of a permit final decision may demand a hearing, pursuant to KRS 224.10-420(2) within thirty (30) days from the date of the issuance of this letter. Two (2) copies of request for hearing should be submitted in writing to the Environmental and Public Protection Cabinet, Office of Administrative Hearings, 35-36 Fountain Place, Frankfort, Kentucky 40601 and the Commonwealth of Kentucky, Environmental and Public Protection Cabinet, Division of Water, 14 Reilly Road, Frankfort, Kentucky 40601. For your record keeping purposes, it is recommended that these requests be sent by certified mail. The written request must conform to the appropriate statutes referenced above.

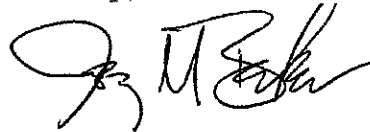


Mr. H. J. Schardein  
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If you have any questions regarding the KPDES decision, please contact Courtney Seitz, Inventory and Data Management Section, KPDES Branch, at (502) 564-2225, extension 465.

Further information on procedures and legal matters pertaining to the hearing request may be obtained by contacting the Office of Administrative Hearings at (502) 564-7312.

Sincerely,

A handwritten signature in black ink, appearing to read "D. W. Morgan". The signature is stylized with a large, looped "D" and a cursive "Morgan".

David W. Morgan, Director  
Division of Water

DWM:NG:ng  
Enclosure

c: Louisville Regional Office  
Division of Water Files

# KPDES



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT

PERMIT NO.: KY0036323  
AI NO.: 2273

### AUTHORIZATION TO DISCHARGE UNDER THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Pursuant to Authority in KRS 224,

Metropolitan Sewer District  
700 West Liberty Street  
Louisville, Kentucky 40203-1911

is authorized to discharge from a facility located at

Yorktown Sewage Treatment Plant  
7401 Yorktown Road  
Louisville, Jefferson County, Kentucky

to receiving waters named

Northern Ditch (Pond Creek) at mile point 17.85

in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit. The permit consists of this Cover Sheet, a Subject Item Inventory Sheet, Effluent Limitations and Monitoring Requirements, and Facility Requirements.

This permit shall become effective on October 1, 2005.

This permit and the authorization to discharge shall expire at midnight, December 31, 2007.

August 24, 2005  
Date Signed

David W. Morgan, Director  
Division of Water

Lloyd R. Cress  
Commissioner

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP

Subject Item Inventory

Permit Number: KY0036323

Activity ID No.: APE20040002

### Subject Item Inventory:

ID	Designation	Description
AIOO2273		
MNPT1	KY0036323 001	Sanitary Wastewater

### Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
AIOO2273	Discharges Into	Northern Ditch
	Then Into	Pond Creek
MNPT1 Sanitary Wastewater	Discharges Into	Northern Ditch
	Then Into	Pond Creek
	Then Into	Ohio River

#### **KEY**

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

TRMT = Treatment

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Sanitary Wastewater

**MNPT0000000001: KY0036323 001**

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Conc. / Quality Minimum	Conc. / Quality Average	Conc. / Quality Maximum	Conc. / Quality Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) effluent gross value</i>	5.0 Monthly average (AV)	10.0 Daily maximum (MX)	lbs/day	*****	4 Monthly average (AV)	8 Daily maximum (MX)	mg/L	weekly	composite sample	May - October
<i>Ammonia Nitrogen, Total (as N) effluent gross value</i>	12.5 Monthly average (AV)	25.0 Daily maximum (MX)	lbs/day	*****	10 Monthly average (AV)	20 Daily maximum (MX)	mg/L	weekly	composite sample	November - April
<i>BOD, Carbonaceous 05 Day, 20C effluent gross value</i>	12.5 Monthly average (AV)	25.0 Daily maximum (MX)	lbs/day	*****	10 Monthly average (AV)	20 Daily maximum (MX)	mg/L	weekly	composite sample	All Year
<i>Chlorine, Total Residual effluent gross value</i>	*****	*****	*****	*****	0.011 Monthly average (AV)	0.019 Daily maximum (MX)	mg/L	weekly	grab sampling	All Year
<i>Fecal Coliform, General effluent gross value</i>	*****	*****	*****	*****	200 Monthly geometric mean	400 Maximum weekly geometric mean	#/100 mL	weekly	grab sampling	All Year
<i>Flow, In Conduit Or Thru Treatment Plant effluent gross value</i>	Report Monthly average (AV)	Report Daily maximum (MX)	MGD (MA)	*****	*****	*****	*****	continuously	continuous recorder	All Year
<i>Oxygen, Dissolved effluent gross value</i>	*****	*****	*****	6 Instantaneous minimum	*****	*****	mg/L	weekly	grab sampling	All Year
<i>pH effluent gross value</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	standard units	weekly	grab sampling	All Year

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item: Sanitary Wastewater**

**MNPT0000000001: KY0036323 001**

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Conc. / Quality Minimum	Conc. / Quality Average	Conc. / Quality Maximum	Conc. / Quality Units	Frequency	Sample Type	Which Months
<i>Phosphorus (as P), Total effluent gross value</i>	*****	*****	*****	*****	Report Monthly average (AV)	Report Daily maximum (MX)	mg/L	weekly	composite sample	All Year
<i>Solids, Total Suspended (TSS) effluent gross value</i>	37.5 Monthly average (AV)	75.0 Daily maximum (MX)	lbs/day	*****	30 Monthly average (AV)	60 Daily maximum (MX)	mg/L	weekly	composite sample	All Year

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP

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### MNPT1 (KY0036323 001) Sanitary Wastewater:

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	Duty to reapply: Any permittee with a currently effective permit shall submit permit application for renewal: Due 180 calendar days before permit expiration date of the existing permit, unless permission for a later date has been granted by the cabinet. The cabinet shall not grant permission for applications to be submitted later than the expiration date of the existing permit. [401 KAR 5:060 Section 1(5)]
S-2	Discharge Monitoring Report (DMR): The permittee shall submit analytical results on monthly Discharge Monitoring Report (DMR) : Due monthly, by the 28th of the following month to the Division of Water. [401 KAR 5:065 Section 1(12)(d)]

#### Narrative Requirements:

##### Part I A Effluent Limitations and Monitoring Requirements:

Condition No.	Condition
T-1	Part I A Effluent Limitations and Monitoring Requirements: The average daily design capacity for this treatment plant is 0.150 mgd. [401 KAR 5:005 Section 24(4)(a)]
T-2	Part I A Effluent Limitations and Monitoring Requirements: There shall be no discharge of floating solids or visible foam in other than trace amounts. [401 KAR 5:031 Section 2]
T-3	Part I A Effluent Limitations and Monitoring Requirements: Effluent samples shall be taken at the following location: nearest accessible point after final treatment, but prior to actual discharge or mixing with receiving waters. [401 KAR 5:070 Section 3(1)]

##### Part I B Schedule of Compliance:

Condition No.	Condition
T-4	Part I B Schedule of Compliance: The permittee shall achieve compliance with all requirements on the effective date of this permit. [401 KAR 5:070 Section 2]

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-5	<p>Part II Standard Conditions for KPDES Permit: The permittee is also advised that all KPDES permit conditions in KPDES Regulation 401 KAR 5:065, Section 1, will apply to all discharges authorized by this permit.</p> <p>This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal, and local agencies.</p> <p>It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods. [401 KAR 5:055 Section 1]</p>
T-6	<p>Part II Standard Conditions for KPDES Permit: Surface waters shall not be aesthetically or otherwise degraded by substances that: (a) Settle to form objectionable deposits; (b) Float as debris, scum, oil, or other matter to form a nuisance; (c) Produce objectionable color, odor, taste, or turbidity; (d) Injure, are chronically or acutely toxic to or produce adverse physiological or behavioral responses in humans, animals, fish and other aquatic life; or (e) Produce undesirable aquatic life or result in the dominance of nuisance species. [401 KAR 5:031 Section 2]</p>
T-7	<p>Part II Standard Conditions for KPDES Permit: Each wastewater system shall be operated under the supervision of an individual holding a Kentucky operator's certificate for at least the class of system supervised. [401 KAR 5:010 Section 2(1)]</p>
T-8	<p>Part II Standard Conditions for KPDES Permit: This treatment unit is temporary and in no way supersedes the need of a regional sewer system. The permittee will eliminate the discharge and treatment unit by connection to a regional sewer system when it becomes available as defined in 401 KAR 5:002. [401 KAR 5:005 Section 4(6)]</p>
T-9	<p>Part II Standard Conditions for KPDES Permit: Duty to Comply, General Requirement: The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of KRS Chapter 224, among which are the following remedies: enforcement action, permit revocation, revocation and reissuance, or modification; or denial of a permit renewal application. [401 KAR 5:065 Section 1(1)(a)]</p>
T-10	<p>Part II Standard Conditions for KPDES Permit: Duty to Reapply: If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit as required in 401 KAR 5:060, Section 1. [401 KAR 5:065 Section 1(2)]</p>
T-11	<p>Part II Standard Conditions for KPDES Permit: Duty to Mitigate: The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. [401 KAR 5:065 Section 1(4)]</p>
T-12	<p>Part II Standard Conditions for KPDES Permit: Proper Operation and Maintenance: The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. [401 KAR 5:065 Section 1(5)]</p>



## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-13	Part II Standard Conditions for KPDES Permit: Permit Actions: The permit may be modified, revoked and reissued, or revoked for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [401 KAR 5:065 Section 1(6)]
T-14	Part II Standard Conditions for KPDES Permit: Duty to Provide Information: The permittee shall furnish to the cabinet, within a reasonable time, any information which the cabinet may request to determine whether cause exists for modifying, revoking and reissuing, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the cabinet, upon request, copies of records required to be kept by this permit. [401 KAR 5:065 Section 1(8)]
T-15	Part II Standard Conditions for KPDES Permit: Inspection and Entry: The permittee shall allow the cabinet, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to: (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records pertinent to the KPDES program are or may be kept; (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (c) Inspect at reasonable times any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under this permit; and (d) Sample or monitor at reasonable times, for the purposes of assuring KPDES program compliance or as otherwise authorized by KRS Chapter 224, any substances or parameters at any location. [401 KAR 5:065 Section 1(9)]
T-16	Part II Standard Conditions for KPDES Permit: Monitoring and records: Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. [401 KAR 5:065 Section 1(10)(a)]
T-17	Part II Standard Conditions for KPDES Permit: Monitoring and records: The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report, or application. This period may be extended by request of the cabinet at any time. [401 KAR 5:065 Section 1(10)(b)]

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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-18	<p>Part II Standard Conditions for KPDES Permit: Monitoring and records: Records of monitoring information shall include:</p> <ol style="list-style-type: none"><li>1. The date, exact place, and time of sampling or measurements;</li><li>2. The individuals who performed the sampling or measurements;</li><li>3. The dates analyses were performed;</li><li>4. The individuals who performed the analyses;</li><li>5. The analytical techniques or methods used; and</li><li>6. The results of the analyses. [401 KAR 5:065 Section 1(10)(c)]</li></ol>
T-19	<p>Part II Standard Conditions for KPDES Permit: Monitoring and records: Monitoring shall be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in the permit. [401 KAR 5:065 Section 1(10)(d)]</p>
T-20	<p>Part II Standard Conditions for KPDES Permit: Monitoring and records: Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be subject to penalties under KRS 224.99-010(4). [401 KAR 5:065 Section 1(10)(e)]</p>
T-21	<p>Part II Standard Conditions for KPDES Permit: Signatory Requirement: All applications, reports, or information submitted to the cabinet shall be signed and certified as indicated in 401 KAR 5:060, Section 9. Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties under KRS 224.99-010(4). [401 KAR 5:065 Section 1(11)]</p>
T-22	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Planned changes: The permittee shall give notice to the cabinet as soon as possible of any physical alteration or additions to the permitted facility. Notice is required only when:</p> <ol style="list-style-type: none"><li>1. The alteration or addition to a permitted facility may meet one (1) of the criteria for determining whether a facility is a new source in 401 KAR 5:080, Section 5; or</li><li>2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject either to effluent limitations in the permit, or to notification requirements under 401 KAR 5:080, Section 5. [401 KAR 5:065 Section 1(12)(a)]</li></ol>
T-23	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Anticipated Noncompliance: The permittee shall give advance notice to the cabinet of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. [401 KAR 5:065 Section 1(12)(b)]</p>

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-24	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Transfers:</p> <p>The permit is not transferable to any person except after notice to the Cabinet. The cabinet may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under KRS Chapter 224. [401 KAR 5:065 Section 1(12)(c)]</p>
T-25	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Monitoring Reports:</p> <p>Monitoring results shall be reported at the intervals specified in the permit. [401 KAR 5:065 Section 1(12)(d)]</p>
T-26	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Monitoring Reports:</p> <p>Monitoring results shall be reported as follows:</p> <p>Monitoring results shall be reported on a Discharge Monitoring Report (DMR). [401 KAR 5:065 Section 1(12)(d)1]</p>
T-27	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Monitoring Reports:</p> <p>Monitoring results shall be reported as follows:</p> <p>If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. [401 KAR 5:065 Section 1(12)(d)2]</p>
T-28	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Monitoring Reports:</p> <p>Monitoring results shall be reported as follows:</p> <p>Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Cabinet in the permit. [401 KAR 5:065 Section 1(12)(d)3]</p>
T-29	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Compliance Schedules:</p> <p>Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date. [401 KAR 5:065 Section 1(12)(e)]</p>
T-30	<p>Part II Standard Conditions for KPDES Permit: Twenty-four (24) hour reporting.</p> <p>The permittee shall follow the provisions of 401 KAR 5:015 and shall orally report any noncompliance which may endanger health or the environment, within 24 hours from the time the permittee becomes aware of the circumstances. This report shall be in addition to and not in lieu of any other reporting requirement applicable to the noncompliance. [401 KAR 5:065 Section 1(12)(f)]</p>

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP  
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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-31	<p>Part II Standard Conditions for KPDES Permit: Twenty-four (24) hour reporting.</p> <p>A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The cabinet may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. [401 KAR 5:065 Section 1(12)(f)]</p>
T-32	<p>Part II Standard Conditions for KPDES Permit: Twenty-four (24) hour reporting.</p> <p>The following shall be included as events which shall be reported within 24 hours:</p> <ol style="list-style-type: none"><li>1. Any unanticipated bypass which exceeds any effluent limitation in the permit, as indicated in subsection (13) of this section;</li><li>2. Any upset which exceeds any effluent limitation in the permit; or</li><li>3. Violation of a maximum daily discharge limitation for any of the pollutants listed by the cabinet in the permit to be reported within 24 hours, as indicated in Section 2(7) of this administrative regulation. [401 KAR 5:065 Section 1(12)(f)]</li></ol>
T-33	<p>Part II Standard Conditions for KPDES Permit: Any person having knowledge in advance of the necessity to bypass a sewage system shall notify the Division of Water before such bypass is commenced. Notification shall be given as far in advance as possible. [401 KAR 5:015 Section 1]</p>
T-34	<p>Part II Standard Conditions for KPDES Permit: Whenever by reason of emergency or accident a spill or discharge occurs from a sewage system or from a container or pipeline used to transport or store substances which would result in or contribute to the pollution of the waters, the person in charge of such activity shall immediately notify the Division of Water by the most rapid means available at 1-800-928-2380. [401 KAR 5:015 Section 2]</p>
T-35	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Other Noncompliance:</p> <p>The permittee shall report all instances of noncompliance not reported under paragraphs (d), (e), and (f) of 401 KAR 5:065, Section 1 (12), (Monitoring Reports, Compliance Schedules, and Twenty-four (24) hour reporting) when monitoring reports are submitted. The reports shall contain the information listed under Compliance Schedules. [401 KAR 5:065 Section 1(12)(g)]</p>
T-36	<p>Part II Standard Conditions for KPDES Permit: Reporting Requirements - Other information: Where the permittee becomes aware that it failed to submit any relevant fact in a permit application, or submitted incorrect information in a permit application or in any report to the Cabinet, it shall promptly submit these facts or information. [401 KAR 5:065 Section 1(12)(h)]</p>
T-37	<p>Part II Standard Conditions for KPDES Permit: Occurrence of a Bypass - Notice:</p> <p>Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass. Compliance with this requirement constitutes compliance with 401 KAR 5:015, Section 1. [401 KAR 5:065 Section 1(13)(b)1]</p>

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Yorktown WWTP  
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### Narrative Requirements:

#### Part II Standard Conditions for KPDES Permit:

Condition No.	Condition
T-38	Part II Standard Conditions for KPDES Permit: No person shall construct, modify, or operate a facility without having received a permit from the cabinet. A construction or modification permit is not required for maintenance replacement for components of an existing facility or for changes which do not affect the treatment processes of the facility, but is required for replacement of an entire wastewater treatment plant. The operational permit provisions of 401 KAR 5:005, Section 27, shall be satisfied by those facilities which have a valid KPDES permit issued pursuant to 401 KAR 5:050 to 5:080. [401 KAR 5:005 Section 1]

#### Part III Other Requirements:

Condition No.	Condition
T-39	Part III Other Requirements: KPDES Permit Reopener Clause: This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under 401 KAR 5:050 through 5:080 and KRS 224.70-120, if the effluent standard or limitation so issued or approved: Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or Controls any pollutant not limited in the permit. The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable. [401 KAR 5:070 Section 6]
T-40	Part III Other Requirements: A permit to construct a facility shall be effective upon issuance unless otherwise conditioned. Construction shall be completed within twelve (12) months unless additional time is requested. If construction is not commenced within the twelve (12) months following a permit's issuance, a new permit shall be obtained before construction may begin. The cabinet may allow a single twelve (12) month extension to begin construction if site conditions have not changed. [401 KAR 5:005 Section 24(1)]
T-41	Part III Other Requirements: Applicability. Any person responsible for conducting any of the following activities shall prepare and implement a groundwater protection plan: [List 1 of 2] storing or related handling of bulk quantities of pesticides or fertilizers for commercial purposes or distribution to a retail sales outlet; applying of pesticides or fertilizers for commercial purposes or for public right-of-way maintenance or institutional lawn care; land treatment or land disposal of a pollutant; storing, treating, disposing, or handling of hazardous waste, solid waste, or special waste in landfills, incinerators, surface impoundments, tanks, drums, other containers, or in piles; commercial or industrial storing or related handling in bulk quantities of raw materials, intermediate substances or products, finished products, substances held for recycling, or other pollutants held in tanks, drums, other containers, or in piles; transmission in pipelines of raw materials, intermediate substances or products, finished products, or other pollutants; installation or operation of on-site sewage disposal systems. [401 KAR 5:037 Section 2(2)]

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP

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### Narrative Requirements:

#### Part III Other Requirements:

Condition No.	Condition
T-42	<p>Part III Other Requirements: Applicability. Any person responsible for conducting any of the following activities shall prepare and implement a groundwater protection plan: [List 2 of 2]</p> <p>storing or related handling of road oils, dust suppressants, or deicing agents at a central location;</p> <p>application or related handling of road oils, dust suppressants or deicing materials;</p> <p>mining and associated activities;</p> <p>installation, construction, operation, or abandonment of wells, bore holes, or core holes;</p> <p>collection or disposal of pollutants in an industrial or commercial facility through the use of floor drains which are not connected to on-site sewage disposal systems, closed-loop collection or recovery systems, or a waste treatment system permitted under KPDES;</p> <p>impoundment or containment of pollutants in surface impoundments, lagoons, pits, or ditches;</p> <p>or commercial or industrial transfer, including loading and unloading, in bulk quantities of raw materials, intermediate substances or products, finished products, substances held for recycling, or other pollutants. [401 KAR 5:037 Section 2(2)]</p>
T-43	<p>Part III Other Requirements: The permit is issued to the applicant and the permittee shall remain the responsible party for compliance with all applicable statutes and administrative regulations until a notarized applicable change in ownership certification is submitted and the transfer of ownership is acknowledged by the cabinet. [401 KAR 5:005 Section 24(3)]</p>
T-44	<p>Part III Other Requirements: The permittee shall ensure that the effluent is of satisfactory quality to prevent violations of the standards in 401 KAR Chapter 5. If violations of the standards of 401 KAR Chapter 5 result from the discharge of the treated effluent, the owner shall provide additional treatment or an extension of the effluent line. [401 KAR 5:005 Section 24(4)(c)1]</p>
T-45	<p>Part III Other Requirements: Applicants shall keep records of all data used to complete permit applications and any supplemental information submitted under this section for a period of at least three (3) years from the date the application is signed. [401 KAR 5:060 Section 6]</p>
T-46	<p>Part III Other Requirements: All wastewater treatment plants shall have a disinfection process which meets one of the four following requirements:</p> <p>(a) An ultraviolet disinfection system designed to treat the anticipated peak hourly flow;</p> <p>(b) a chlorination system with a flow or demand proportional feed system. The chlorine contact tank shall have a minimum detention time of thirty (30) minutes based on the average flow, or fifteen (15) minutes based on the peak hourly flow, whichever requires the larger tank size. Wastewater treatment plants shall also have a dechlorination system with a flow or demand proportional feed system if necessary to meet the effluent limits; or</p> <p>(c) a chlorination system with a manually controlled feed system and a flow equalization basin designed to eliminate the diurnal flow variations.</p> <p>(d) Other disinfection processes providing equivalent treatment as approved by the cabinet. [401 KAR 5:005 Section 11(1), 401 KAR 5:065 Section 1(5)]</p>
T-47	<p>Part III Other Requirements: The flow measuring device shall measure all flow received at the wastewater treatment plant. An indicating, recording, and totalizing flow measuring device shall be installed at each large wastewater treatment plant. [401 KAR 5:005 Section 12, 401 KAR 5:065 Section 1(5)]</p>

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP

Facility Requirements

Permit Number: KY0036323

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### Narrative Requirements:

#### Part III Other Requirements:

Condition No.	Condition
T-48	Part III Other Requirements: Flow equalization basins shall have an emergency overflow to an appropriate point in the treatment scheme. [401 KAR 5:005 Section 17(1)(c), 401 KAR 5:065 Section 1(5)]
T-49	Part III Other Requirements: Wastewater treatment lagoons shall be at least 200 feet from any present or future residence. [401 KAR 5:005 Section 18(3), 401 KAR 5:065 Section 1(5)]
T-50	Part III Other Requirements: A water supply shall be provided to facilitate cleaning and maintenance of the wastewater treatment plant. If a potable source is provided, backflow preventers shall be installed to protect the water supply. [401 KAR 5:005 Section 10(6), 401 KAR 5:065 Section 1(5)]
T-51	Part III Other Requirements: Fencing and/or other adequate protection shall be provided around the wastewater treatment plant. [401 KAR 5:005 Section 10(7), 401 KAR 5:065 Section 1(5)]
T-52	Part III Other Requirements: An all-weather access road shall be provided to the wastewater treatment plant. [401 KAR 5:005 Section 10(8), 401 KAR 5:065 Section 1(5)]
T-53	Part III Other Requirements: No bypass or overflow structure of any type shall be constructed in any sewer line or pump station or at any wastewater treatment plant unless specifically approved by the cabinet in writing. [401 KAR 5:005 Section 7(5), 401 KAR 5:065 Section 1(5)]
T-54	Part III Other Requirements: Sharp crested weirs shall be used for measuring effluent flow only and shall have the following characteristics: the weir shall be installed perpendicular to the axis of flow and there shall be no leakage at the weir edges or bottom; the weir plate shall be level and adjustable; the sides of a rectangular contracted weir shall be vertical; the angles of V-notch weirs shall be cut precisely; the thickness of the weir crest shall be less than one-tenth (0.1) of an inch; the distance from the weir crest to the bottom of the approach channel shall be more than one foot or two times the maximum weir head, whichever is greater; the distance from the sides of the weir to the sides of the approach channel shall be more than one foot or two times the maximum weir head, whichever is greater. This does not apply to suppressed rectangular weirs; air shall circulate freely under, and on both sides of, the nappe; the measurement of head on the weir shall be made at least four times the maximum weir head upstream from the weir crest; the cross-sectional area of the approach channel shall be at least eight times the area of the nappe. The approach channel shall be straight and uniform upstream from the weir for a distance of fifteen times the maximum weir head; the minimum acceptable weir head is two-tenths (0.2) foot; the maximum downstream pool level shall be at least two-tenths (0.2) foot below the crest elevation; the weir length for a rectangular, suppressed, or cipolletti weir shall be at least three times the maximum weir head; and a reference staff gauge shall be provided. [401 KAR 5:005 Section 12(2), 401 KAR 5:065 Section 1(5)]

## Authorization to Discharge Under the Kentucky Pollutant Discharge Elimination System

Yorktown WWTP  
Facility Requirements  
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### Narrative Requirements:

#### Part III Other Requirements:

Condition No.	Condition
T-55	Part III Other Requirements: Parshall flumes may be used to measure influent or effluent flows and shall have the following characteristics: the approach channel upstream of the flume shall be straight and have a width uniform for the length required by the following: if the flume throat width is less than one-half ( $\frac{1}{2}$ ) the width of the approach channel, the straight upstream channel length shall be twenty times the throat width; if the flume throat width is equal to or larger than one-half ( $\frac{1}{2}$ ) the width of the approach channel, the straight upstream length shall be greater than ten times the approach channel width; and if the cross-sectional area of the inlet to the approach channel is smaller than the cross-sectional area of the approach channel, additional straight upstream channel length may be required to dissipate the velocity; the throat section walls shall be vertical; the head measuring point shall be at two-thirds ( $\frac{2}{3}$ ) the length of the converging sidewall; the flow shall be evenly distributed across the channel, shall be free of turbulence or waves, and shall not be located after transition sections; the longitudinal and lateral axes of the converging crest floor shall be level; free flow conditions shall be maintained; and a reference staff gauge shall be provided for $H_a$ and $H_b$ to determine if submergence occurs. [401 KAR 5:005 Section 12(3), 401 KAR 5:065 Section 1(5)]
T-56	Part III Other Requirements: Tablet type chlorination equipment shall not be used in intermediate or large wastewater treatment plants. [401 KAR 5:005 Section 11(2), 401 KAR 5:065 Section 1(5)]
T-57	Part III Other Requirements: An audible and visible alarm shall be provided at the wastewater pump station. [Ten States (WW) 45, 401 KAR 5:065 Section 1(5)]
T-58	Part III Other Requirements: If the discharge from the wastewater treatment plant enters a sinkhole directly or enters a disappearing stream, the applicant shall submit a proposal for a groundwater tracer study or results from a previously conducted study to the cabinet for approval. [401 KAR 5:005 Section 4(5)]
T-59	Part III Other Requirements: The permittee shall comply with Requirements for Recording and Reporting of Monitoring Results: (1) Requirements concerning the proper use, maintenance, and installation, when appropriate, of monitoring equipment or methods, including biological monitoring methods when appropriate; (2) Required monitoring including type, intervals, and frequency sufficient to yield data which are representative of the monitored activity including, when appropriate, continuous monitoring; and (3) Applicable reporting requirements based upon the impact of the regulated activity and as specified in 401 KAR 5:065, Sections 1 and 2. Reporting shall be no less frequent than specified in 401 5:070, Section 2, Schedules of Compliance. [401 KAR 5:070 Section 3]





ERNE FLETCHER  
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
14 REILLY ROAD  
FRANKFORT, KENTUCKY 40601-1190  
[www.kentucky.gov](http://www.kentucky.gov)

LAJUANA S. WILCHER  
SECRETARY

**FACT SHEET**

**KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM  
PERMIT TO DISCHARGE TREATED WASTEWATER  
INTO WATERS OF THE COMMONWEALTH**

KPDES No.: KY0036323      Permit Writer: Daniel Hardin      Date: June 20, 2005  
AI No.: 2273

1. **SYNOPSIS OF APPLICATION**

- a. Name and Address of Applicant  
Metropolitan Sewer District  
700 West Liberty Street  
Louisville, Kentucky 40203-1911
- b. Facility Location  
Yorktown Sewage Treatment Plant  
7401 Yorktown Road  
Louisville, Jefferson County, Kentucky
- c. Description of Applicant's Operation  
Engaged in collection, treatment, and disposal of wastewater.
- d. Production Capacity  
0.150 MGD
- e. Description of Existing Pollution Abatement Facilities  
Treatment process consists of screening, aeration tanks, primary settling clarifiers, activated sludge (aerobic digestion), chlorine disinfection, and dechlorination.

mw

f. Permitting Action

This is a reissuance of a minor KPDES permit for a subdivision with an existing discharge.

2. **RECEIVING WATER**

a. Name/Mile Point

Northern Ditch (Pond Creek) at mile point 17.85

b. Stream Segment Use Classifications

Warmwater Aquatic Habitat, Primary/Secondary Contact Recreation, and Domestic Water Supply

Northern Ditch is listed on Kentucky's 303(d) list of impaired waters as required by the Clean Water Act. The stream does not meet the Warmwater Aquatic Habitat designation and the Primary/Secondary Contact Recreation use. Stream habitat is affected by organic enrichment, nutrients, and low dissolved oxygen. Pathogens in the stream prevent swimming. Sources are package plants, urban runoff, storm sewers, and on-site wastewater systems (septic tanks). This plant is meeting its permit requirements and should not contribute to additional degradation. The Louisville and Jefferson County Metropolitan Sewer District has already eliminated treatment plants in this watershed and plans to eliminate this treatment plant by 2011 pending completion of the Northern Ditch Interceptor Project.

c. Stream Low Flow Conditions

1.00 cfs

### 3. REPORTED DISCHARGE AND PROPOSED LIMITS - Sanitary

Serial Number 001

Effluent Characteristics	Reported Discharge*			Proposed Limits		COMMENTS
	<u>Average Annual Value</u>	<u>Lowest Monthly Value</u>	<u>Highest Monthly Value</u>	<u>Monthly Average</u>	<u>Maximum Weekly Average</u>	
Flow, MGD	0.196	0.118	0.559	Design Flow = 0.150 mgd		
CBOD <sub>5</sub> , mg/l	4	2	23	10	20	
TSS, mg/l	8	2	29	30	60	
Fecal Coliform, N/100 ml	NR	NR	324	200	400	
Ammonia (as N), mg/l	Summer	0.7	0.2	7.7	4	8
	Winter	1.2	0.2	9.6	10	20
Dissolved Oxygen, mg/l	NR	7.0	NR	Not less than 6		
pH, standard units	NR	6.2	7.6	6.0 - 9.0		
Total Residual Chlorine, mg/l	NR	NR	0.0	0.011 Monthly Average 0.019 Daily Maximum		
Total Phosphorus, mg/l	NR	NR	NR	Monitor		

\* Reported discharge values were compiled using thirty-five (35) months of DMR data, from April 30, 2001 through February 29, 2004.

Summer: May 1 - October 31  
 Winter: November 1 - April 30

NR - Not Reported

4. **METHODOLOGY USED IN DETERMINING LIMITATIONS**

a. Serial Number

Outfall 001 Sanitary Wastewater

b. Effluent Characteristics

Conventional Pollutants: Flow, Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform, pH, Ammonia Nitrogen, Dissolved Oxygen, Total Residual Chlorine (TRC), and Total Phosphorus.

c. Pertinent Factors

This facility treats domestic wastewater.

Regional Facility Plan: The plant is located within the regional facility planning area of Louisville and Jefferson County Metropolitan Sewer District. The current facility is compatible with the regional facility plan and no regional facility is available for connection as defined in regulation 401 KAR 5:002, Section 1(21). Connection to regional facility will be available in 2011.

d. Monitoring Requirements

Flow monitoring shall be conducted continuously with a recording flow meter.

Conventional Pollutants shall be monitored once per week: Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform, pH, Ammonia Nitrogen, Dissolved Oxygen, Total Residual Chlorine (TRC), and Total Phosphorus.

e. Justification of limits

The Kentucky regulations cited below have been duly promulgated pursuant to the requirements of Chapter 224 of the Kentucky Revised Statutes.

Flow

The design capacity and monitoring requirements are consistent with 401 KAR 5:005 and 401 KAR 5:065, Section 2(8)(a).

Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform, and pH

The effluent limitations for the above permit parameters are consistent with 401 KAR 5:045.

Ammonia Nitrogen, Dissolved Oxygen, and Total Residual Chlorine (TRC)

The effluent limitations for the above permit parameters are consistent with 401 KAR 5:031.

Total Phosphorus

The effluent monitoring requirements for the above permit parameter are consistent with 401 KAR 5:031.

5. **ANTIDEGRADATION:**

The development of this permit commenced prior to the April 12, 2005 EPA approval of Kentucky's Antidegradation Regulation promulgated on September 8, 2004. Therefore, previous antidegradation requirements are applicable. The conditions of 401 KAR 5:029, Section 1(1) have been satisfied by this permit action. A review under Section 1(2), (3), and (4) is not applicable.

6. **PROPOSED COMPLIANCE SCHEDULE FOR ATTAINING EFFLUENT LIMITATIONS**

The permittee will comply with all effluent limitations by the effective date of the permit.

7. **PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE**

None

8. **PERMIT DURATION**

Expires December 31, 2007. This expiration date will place the facility in the correct 5-year cycle as per the Kentucky Watershed Management Framework. In this instance, the permit is scheduled for reissuance in January 2008 for the Salt/Licking Basin Management Unit.

9. **PERMIT INFORMATION**

The application, draft permit, fact sheet, public notice, comments received, and additional information is available from the Division of Water at 14 Reilly Road, Frankfort Office Park, Frankfort, Kentucky 40601.

10. **REFERENCES AND CITED DOCUMENTS**

All material and documents referenced or cited in this fact sheet are a part of the permit information as described above and are readily available at the Division of Water Central Office. Information regarding these materials may be obtained from the person listed below.

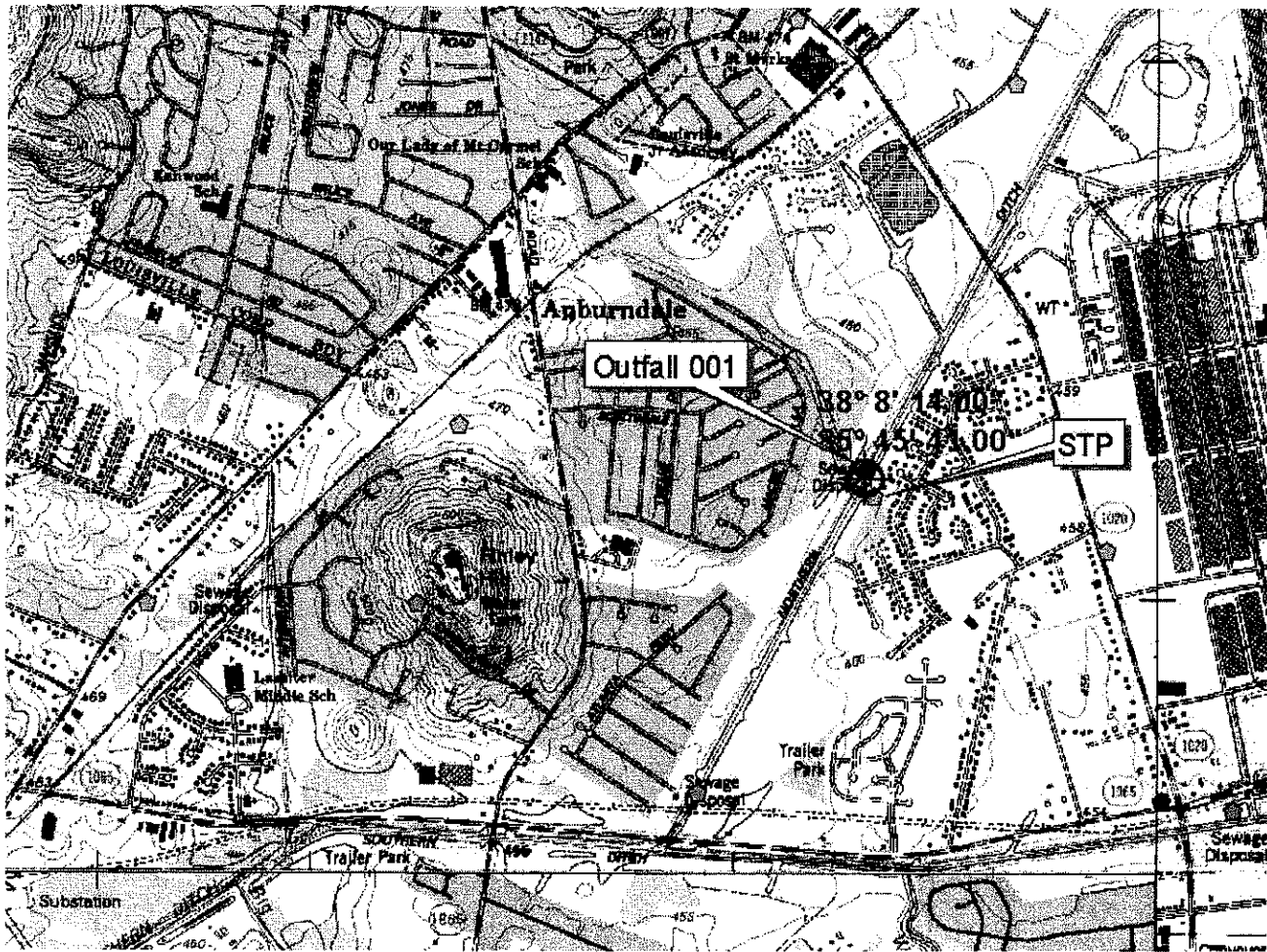
11. **CONTACT**

For further information on the draft permit or comment process, contact the individual identified on the Public Notice or the Permit Writer - Daniel Hardin at (502) 564-2225, extension 432, or email daniel.hardin@ky.gov.

12. **PUBLIC NOTICE INFORMATION**

Please refer to the attached Public Notice for details regarding the procedures for a final decision, deadline for comments and other information required by 401 KAR 5:075, Section 4(2)(e).

# Yorktown STP



- ◆ KPDES Outfall
- ◆ KPDES Facility
- ◆ Active
- ◆ General
- ◆ Inactive
- County

