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COMMONWEALTH OF KENTUCKY  
**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FRANKFORT OFFICE PARK  
14 REILLY RD  
FRANKFORT KY 40601

**JAN 3 2002**

Mr. J. Randy Bent  
Louisville and Jefferson County MSD  
700 West Liberty Street  
Louisville, Kentucky 40203-1913

Re: Timberlake Wastewater Treatment Plant  
KPDES No.: KY0043087  
Jefferson County, Kentucky

Dear Mr. Bent:

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.

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 Natural Resources and Environmental Protection Cabinet, Office of Administrative Hearings, 35-36 Fountain Place, Frankfort, Kentucky 40601 and the Commonwealth of Kentucky, Natural Resources and Environmental 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.

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 "Jeffrey W. Pratt".

Jeffrey W. Pratt, Director  
Division of Water

JWP:NG:ng  
Enclosure

c: Louisville Regional Office  
Division of Water Files



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# KPDES



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT

PERMIT NO.: KY0043087

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

Pursuant to Authority in KRS 224,

Louisville and Jefferson County MSD  
700 West Liberty Street  
Louisville, Kentucky 40203-1913

is authorized to discharge from a facility located at

Timberlake Wastewater Treatment Plant  
Timber Ridge Drive, Highway 42  
Prospect, Jefferson County, Kentucky

to receiving waters named

Harrods Creek/Mile point 2.45

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in PARTS I, II, and III hereof. The permit consists of this cover sheet, and PART I 2 pages, PART II 2 pages, and PART III 1 page.

This permit shall become effective on October 1, 2002.

This permit and the authorization to discharge shall expire at midnight, September 30, 2007.

JAN 3 2002

Date Signed

  
Jeffrey W. Pratt, Director  
Division of Water

Robert W. Logan  
Commissioner

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, Kentucky 40601

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the term of this permit, the permittee is authorized to discharge from outfall(s) serial number(s): 001, Municipal Discharge.

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

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>		
	lbs/day		Other Units (Specify)		Measurement Frequency	Sample Type	Sampling Location
Monthly Avg.	Weekly Avg.	Monthly Avg.	Weekly Avg.				
Flow, Design (0.200 mgd)	N/A	N/A	Report	Report***	Continuous	N/A	Influent or Effluent
Biochemical Oxygen Demand (5 day), Carbonaceous	17	25	10 mg/l	15 mg/l	1/week	Composite	Influent & Effluent
Total Suspended Solids	50	75	30 mg/l	45 mg/l	1/week	Composite	Influent & Effluent
Fecal Coliform Bacteria, N/100	N/A	N/A	200	400	1/week	Grab	Effluent
Ammonia (as N)	3	5	2 mg/l*	3 mg/l*	1/week	Composite	Influent & Effluent
	8	12	5 mg/l**	7.5 mg/l**			
Dissolved Oxygen shall not be less than 7 mg/l					1/week	Grab	Effluent
Total Residual Chlorine (TRC)	N/A	N/A	0.011 mg/l	0.019 mg/l***	1/week	Grab	Effluent
Phosphorus, Total (as P)	N/A	N/A	Report	Report	2/month	composite	Effluent
Additional Parameters				See PART I, Page I-2		Composite	Effluent

In addition to the specified limits, the monthly average effluent CBOD<sub>5</sub> and suspended solids concentration shall not exceed 15 percent of the respective monthly average influent concentration (85% removal).

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The effluent shall not cause a visible sheen on the receiving water.

\* Effective May 1 - October 31  
\*\* Effective November 1 - April 30  
\*\*\* Daily maximum limitation

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUATION)

The effluent shall be monitored for the following parameters once per year by composite sample in both the total recoverable form and the dissolved form:

Lead, Copper, Zinc, and Cadmium.

The effluent shall be monitored for hardness as Calcium Carbonate ( $\text{CaCO}_3$ ) by composite sample. Testing for these parameters shall be conducted according to 40 CFR Part 136.

Results shall be reported each year (See PART III-A, Page III-1).

B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with all requirements on the effective date of this permit.

### 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.

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.

It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods.

### SPECIAL POTW REQUIREMENTS

NOTE: The following requirements apply only to Publicly-Owned Treatment Works.

1. Sludge Disposal

Requirements will be imposed, as applicable, governing the disposal of sewage sludge in accordance with 401 KAR Chapters 30, 47, and 48.

2. Industrial Pretreatment Standards

a. The permittee shall provide annual reports to the Permit Issuing Authority listing industrial users of the system and identifying any problems caused by these users. Yearly reports are due no later than December 31 of each year, unless otherwise specified by the permitting authority.

b. The permittee may be required to develop a local pretreatment program to enforce the requirement of applicable industrial discharges to meet the Federal Categorical Standards of 40 CFR Part 403, and other requirements pursuant to state regulation 401 KAR 5:057, Section 6.

3. Prohibitive Discharges

Under no circumstances shall the permittee allow discharge of the following into the system:

a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW);

b. Pollutants which will cause corrosive structural damage to the POTW, but in no case, discharges with a pH lower than 5.0;

c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in sewers, or other interference with operation of the POTW;

d. Any pollutant, including oxygen demanding pollutants (BOD<sub>5</sub>, etc.), released in a discharge at such a volume or strength as to cause interference in the POTW;

- e. Heat in amounts which will inhibit biological activity in the POTW, but in no case, heat in such quantities that the influent to the sewage treatment works exceeds 104° F (40° C);
- f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
- g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and,
- h. Any trucked or hauled waste, except at discharge points designated by the POTW.

**PART III**

OTHER REQUIREMENTS

A. Reporting of Monitoring Results

Monitoring results obtained during each month must be reported on a preprinted Discharge Monitoring Report (DMR) Form, which will be mailed to you. Each month's completed DMR must be sent to the Division of Water at the address listed below (with a copy to the appropriate Regional Office) postmarked no later than the 28th day of the month following the month for which monitoring results were obtained.

Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, Kentucky 40222-5084  
Attn: Supervisor

Kentucky Natural Resources and  
Environmental Protection Cabinet  
Dept. for Environmental Protection  
Division of Water/KPDES Branch  
14 Reilly Road, Frankfort Office Park  
Frankfort, Kentucky 40601

B. 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, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. 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.



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FRANKFORT KY 40601

**STATEMENT OF BASIS**

**KPDES No.:** KY0043087      **Permit Writer:** Herb Ray      **Date:** November 19, 2001

**Facility Name:** Timberlake Wastewater Treatment Plant

**Facility Location:** Timber Ridge Drive, Highway 42  
Prospect, Jefferson County, Kentucky

**Permitting Action:** This is a re-issuance of a permit for a municipality.

**Permit Duration:** This permit shall become effective October 1, 2002. The effective date of this permit is being delayed to place the facility in the correct 5-year cycle, as per the Kentucky Watershed Management Framework. During the interim period, the current permit will remain effective, in accordance with 401 KAR 5:060, Section 1(5)(c). In this instance, the permit is scheduled for re-issuance in October 2007 for the Salt/Licking Basin Management Unit.

**Receiving Stream:** Harrods Creek/Mile point 2.45

**Stream Segment Use Classification:** Warmwater Aquatic Habitat and Primary/Secondary Contact Recreation. Receiving stream is listed in Kentucky's 303(d) list of impaired waters as required by the Clean Water Act due to organic enrichment, low dissolved oxygen, and nutrients resulting from numerous wastewater treatment plant discharges. Total Maximum Daily Load (TMDL) study calls for the elimination of six (6) of these plants. This particular discharge is scheduled for elimination in 2005 with the completion of the Harrods Creek Interceptor Project.

**Stream Low Flow Condition:** 5.00 cfs

**Justification of Permit Conditions:**

The following regulations are pursuant to KRS 224.70-100 and KRS 224.70-110.

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.

pg





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

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

**Sludge Management:**

Requirements will be imposed, as applicable, governing the disposal of sewage sludge in accordance with 401 KAR Chapters 30, 47, and 48.

**Antidegradation:**

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.