ORDINANCE NO. <u>BG2017 - 22</u>

ORDINANCE AMENDING CODE OF ORDINANCES

ORDINANCE AMENDING CHAPTER 23 (WATER AND SEWER), SUBCHAPTER 23-3 (SEWER SYSTEM) OF THE CITY OF BOWLING GREEN CODE OF ORDINANCES AS PROPOSED BY BOWLING GREEN MUNICIPAL UTILITIES (BGMU)

WHEREAS, Bowling Green Municipal Utilities (BGMU) is proposing amendments to Chapter 23 (Water and Sewer), Subchapter 23-3 (Sewer System) to reflect regulatory and administrative changes relative to water and wastewater system requirements; and,

WHEREAS, it is in the best interest of the City to revise Chapter 23 (Water and Sewer) as proposed by BGMU.

NOW, THEREFORE, BE IT ORDAINED by the City of Bowling Green, Kentucky as follows:

- 1. Chapter 23 (Water and Sewer) is hereby amended as follows:
 - 23-3 SEWER SYSTEM.
 - 23-3.01 Definitions.

"General Manager" shall mean the General Manager of the Bowling Green Municipal Utilities (BGMU) of Bowling Green, Kentucky, or [his] authorized deputy, agent, or representative.

"Plumbing Inspector" shall mean the individual assigned by the [State-of-Kentucky Department of Natural Resources and Environmental Protection Cabinet] Commonwealth of Kentucky to enforce the plumbing laws and codes of the Commonwealth of Kentucky within the service territory of BGMU [of Bowling Green, Kentucky].

"Pretreatment Standards" shall mean the standards required under applicable Federal

Regulations implementing Section 307 of the Act (33 USC, Sec. 1317), as well as any non-conflicting State standards or BGMU standards set forth in subsection 23-3.05[(e)(4)] and 23-3.07 of this Subchapter. In case of conflicting standards, the more stringent thereof shall apply.

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"Public Sanitary Sewer" (Sewer) shall mean a sewer owned or controlled by BGMU[, of Bowling Green, Kentucky,] or any public or private utility that carries liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions together with minor quantities of ground, storm, and surface waters that are not admitted intentionally.

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"Significant Industrial User" shall mean any user of the public sanitary sewer who:

- a. Has a discharge flow of twenty-five thousand (25,000) gallons or more of wastewater per average work day, excluding domestic wastewater; or
- b. Has a flow or pollutant loading greater than five (5%) percent of the design capacity of the wastewater treatment plant; or
- c. Has [in his] waste toxic pollutants requiring pretreatment standards prescribed in Section 23-3.05[, paragraph e] and 23-3.07 of this Subchapter; or
- d. Is found by the General Manager to have significant impact, either singly or in combination with other contributing users, on the wastewater system, the quality of sludge, the quality of effluent from the wastewater treatment plant or the quality of air emissions from the wastewater treatment plant; or
- e. Is subject to a categorical pretreatment standard(s) under 40 CFR 403.6 and 40 KAR Chapter 1, Subchapter N.

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23-3.02 Use of Public Sanitary Sewers Required.

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c. The owner of all houses, buildings, or properties in existence on the effective date of this ordinance and used for human occupancy, employment, recreation, or other purposes, situated within the City and abutting on any street, alley, or right-of-way in which there is now located or may in the future be located a public sanitary sewer of the City, is hereby required at [his] the owner's expense to install suitable toilet facilities therein, and to connect such facilities directly with the proper sewer in accordance with the provisions of this Section, within ninety (90) days after date of official notice to do so, provided that the sewer is determined to be available by the Health Officer or other designated authority as determined by the City Commission, by constructing a building sewer from [his] the building drain to the public sanitary sewer.

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- 23-3.04 Building Sewers and Connections.
- a. No <u>un</u>authorized person shall uncover, make any connections with or opening into, use, alter or disturb any public sanitary sewer or appurtenance thereof.

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23-3.05 Prohibitions and Limitations on Use of the Public Sanitary Sewers.

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c. No person shall discharge or cause to be discharged any substances, materials, waters, or wastes to any public sewer if it appears likely in the opinion of the General Manager that such waste may harm the sewers, wastewater treatment process or equipment or may adversely affect the receiving stream, or may otherwise endanger life, limb, public property, or constitute a nuisance. In forming [his] an opinion as to the acceptability of these wastes, the General Manager shall give consideration to such factors as the quantities of the subject wastes in relation to flows and velocities in the sewers, materials of construction of the sewers, nature of the wastewater treatment plant, degree of

treatability of wastes in the wastewater treatment plant, and such other factors as may be deemed appropriate in the opinion of the General Manager.

e. Prohibitions on Wastewater Discharges. No person shall discharge or deposit or cause or allow to be discharged or deposited into the wastewater system any wastewater which contains the following:

1. Oils and Grease.

- (a) Oil and grease concentrations or amounts from users violating Federal, State or City pretreatment standards set forth in paragraph e.1.(b) of this Section.
- (b) [Wastewater from users containing floatable oil, wax, fats or grease concentration of non-hydrocarbon origin of more than one hundred (100 mg/1) milligrams per liter]

 Industrial wastewater shall not exceed total oil and grease concentration of three hundred ninety (390 mg/l) milligrams per liter, whether emulsified or not, or containing substances which may solidify or become viscous at temperatures between thirty-two (32) degrees and one hundred fifty (150) degrees Fahrenheit (0 degrees to 65 degrees Celsius) at the point of discharge into the system. Hydrocarbon origin oil and grease concentration shall not exceed fifty (50 mg/1) milligrams per liter.
- (c) All FSEs are required to comply with BGMU Fats, Oils and Grease (FOG) Management Policy (see Section 23-3.05(h)).

f. Limitations on Wastewater Discharges. No person shall discharge or convey, or permit or allow to be discharged or conveyed to the public sanitary sewer any wastewater containing pollutants of such character or quantity that will:

1. Not be susceptible to treatment, cause interference with the process or efficiency of the wastewater treatment system or pass through the treatment plant to the receiving

stream.

- 2. Constitute a hazard to human or animal life, or to the stream or watercourse receiving the wastewater treatment plant effluent.
 - 3. Violate Federal, State or City pretreatment standards.
 - 4. Exceed the following discharge limitations:

Constituents	Limits mg/1*
Arsenic	0.69
Cadmium	0.02
Chlorides	1,600

[*The limit applies to either a composite sample or a grab sample expressed as a maximum daily concentration in milligrams per liter (mg/1). The above-mentioned constituents and limitations are subject to review and revision with Kentucky NREPC concurrence. This action to occur at the time of each NPDES permit renewal as a minimum.]

<u>Constituents</u>	Limits mg/1]
Chromium VI	1.31
Chromium, Total	2.77
Copper	1.12
Cyanides, Total	0.15
Lead	0.200
Mercury	0.001
Molybdenum	6.535
Nickel	1.89
pH	6-11 s.u.
Selenium	0.04
Silver	0.106
Sulfides	5.0
Zine	2.2 <u>1</u>
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*The limit applies to either a composite sample or a grab sample expressed as a maximum daily concentration in milligrams per liter (mg/1). The above-mentioned constituents and limitations are subject to review and revision with concurrence from the Commonwealth of Kentucky. This action to occur at the time of each NPDES permit renewal as a minimum.

- g. Septic tank and other holding tank wastewater discharges.
- No person owning vacuum or "septic tank" pump trucks or other liquid 1. wastewater transport trucks shall discharge directly or indirectly such wastewater into the wastewater system, unless such person shall first have applied for and received a nontransferable Septic Tank Discharge Permit from the General Manager for each vehicle. All applicants for Septic Tank Discharge Permit shall complete such forms as required by the General Manager, pay appropriate fees to include treatment fees reviewed at least annually, and agree in writing to abide by the provisions of this Subchapter and any special conditions or regulations established by the Health Officer and General Manager. The owners of such vehicles shall display the permit number for each vehicle used for such purposes. Such permits shall be valid for the specified period the permit is purchased but in no case longer than one (1) year from the date of issuance, provided that such permit shall be subject to revocation by the General Manager for violation of any provision of this Subchapter or reasonable regulation established by the City or BGMU. Such permits shall be limited to the discharge of domestic wastewater containing no industrial wastewater. The General Manager shall designate the locations and times where such trucks may be discharged and may refuse to accept any truckload of wastewater where in [his] the absolute discretion of the General Manager it appears that the wastewater could cause interference with the effective operation of the wastewater system.

i. Surcharges.

1. [There shall be a surcharge for high ammonia nitrogen (NH₃-N), for high biochemical oxygen demand (BOD₅), for high chemical oxygen demand (COD) and for high total suspended solids (TSS) levels in wastewater discharged into the public sanitary sewer by a nonresidential user. The surcharge rates shall be based upon actual costs for treatment of BOD and

TSS, and estimates for the cost of treating COD based upon a BOD/COD ratio of 0.67 (2/3). The cost of treating NH₃-N shall be determined by multiplying the BOD₅ surcharge rate by 4.67, the multiple of oxygen needed to treat an ammonia ion as compared to BOD. The rates may be adjusted annually but shall be reviewed and adjusted if necessary at least biannually and will be based upon the following formulae:

 $\frac{(Total\ annual\ O\ \&\ M\ cost\ of\ wastewater\ system)}{(Annual\ total\ lbs\ BOD_{\varsigma}\ plus\ TSS\ to\ WWTP)}$

Fractional WWTP BOD $_{\varsigma}$ load = (Total average lbs. BOD $_{\varsigma}$ to WWTP)

(Total average lbs./day BOD $_{\varsigma}$ plus TSS to WWTP)

Cost/lb. TSS = (Fractional WWTP TSS load) x (Total annual O & M cost of wastewater system)

(Annual total lbs. BOD_s plus TSS to WWTP)

Fractional WWTP TSS load = (1 - Fractional WWTP BOD, load)

Cost/lb. COD = (Cost/lb. BOD) X (.67)

Cost/lb. NH_{3} -N = (Cost/lb. BOD) x (4.67)

Surcharges for waste strengths above the following discharge values may be assessed:

BOD₅ above 300 mg/L (or COD above 450 mg/L)

TSS above 300 mg/L

NH₂-N-above 25 mg/L]

There will be a surcharge for high strength wastewater for either high biochemical oxygen demand (BOD₅) or high chemical oxygen demand (COD), but not both simultaneously. There will also be surcharges for high total suspended solids (TSS), high ammonia nitrogen (NH₃-N), high non-hydrocarbon oil and grease (O&G non-hydro) and high total phosphorus (T-P) in industrial wastewater discharged to the sanitary sewer system. Industrial wastewater that exceeds the following thresholds

Discharged, lbs.

shall be subject to surcharge:

Constituents	Threshold mg/1
BOD5	<u>300</u>
COD	<u>450</u>
TSS	<u>300</u>
NH3-N	<u>25</u>
O&G non-hydrocarbon	<u>50</u>
T-P	<u>10</u>

- 2. Sewer surcharges shall be based upon the average of the analysis of at least two (2) samples taken during any one (1) month or quarter and shall remain in effect [for a minimum of one (1) month.] until the next analysis is conducted. One sample may be used if the industrial user's production or sampling frequency does not allow for a second sample. [Sewer surcharges will be billed with the regular sewer service bill and the General Manager shall have such remedies for the collection of such costs as he has for the collection of sewer service charges.]
- 3. Each constituent has respective surcharge rates that reflect the cost of additional treatment. These rates are based on the latest BGMU surcharge evaluation.

Surcharge Formula:

(Average Pollutant Concentration, mg/l) x (Flow, MGD) x (8.34) = Pollutant

(Pollutant Discharged, lbs) x (Surcharge Rate) = Total Surcharge Amount

- 4. Sewer surcharges will be billed with the regular sewer service bill and the General Manager shall have such remedies for the collection of such costs for the collection of sewer service charges.
- [3. A surcharge may be assessed for BOD and COD, but not for both parameters simultaneously.] No reduction in sewer service charges, fees or taxes shall be permitted because of the fact that certain wastewaters discharged to the sanitary sewer contain less than the maximum allowable concentration or threshold as defined above.

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23-3.06 Control of Prohibited Wastes.

a. Regulatory Actions. If wastewaters containing any substances described in Section 23-3.05 or 23-3.07 are discharged or proposed to be discharged into the wastewater system of BGMU

or to any wastewater system tributary thereto, the General Manager may take any action necessary to:

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d. Pretreatment Facilities Operations. If pretreatment or control of waste flows is required, such facilities shall be maintained in good working order and operated as efficiently as possible by the owner or operator at [his] their own cost and expense, subject to the requirements of this Subchapter and all other applicable codes, ordinances and laws. By-passing of pretreatment systems is prohibited as per 40 CFR 403.17.

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f. Protection from Accidental Discharge. Each Significant Industrial User shall provide protection from accidental discharge of prohibited materials or other wastes regulated by this Subchapter. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the owner's or operator's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the General Manager for review, and shall be approved [by him] before construction of the facility. Review and approval of such plans and operating procedures shall not relieve the Significant Industrial User from the responsibility to modify [his] the facility as necessary to meet the requirements of this Subchapter.

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- 23-3.07 Significant Industrial Users: Reporting and Monitoring.
- a. Reports.

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7. All Significant Industrial Users must notify the General Manager within twenty-four (24) hours of first becoming aware of a permit violation through self-monitoring. This notification shall include the date of violation, the parameter violated and the amount in exceedance. Within ten (10) days of first becoming aware of this violation, Significant Industrial User must resample for the parameter(s) violated and submit this sample results to BGMU.

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- b. Records and Monitoring.
- 1. All Significant Industrial Users who discharge or propose to discharge wastewaters to the wastewater system shall maintain such records of production and related factors, effluent flows, and pollutant amounts or concentrations as are necessary to demonstrate compliance with the requirements of this Subchapter and any applicable State or Federal pretreatment standards or requirements. These records shall also include the date, exact place, method and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or BGMU, or where the User has been specifically notified of a longer retention period by the General Manager.
- 2. Such records shall be made available upon request by the General Manager. All such records relating to compliance with pretreatment standards shall be made available to officials of the U.S. Environmental Protection Agency and the [State of Kentucky Natural Resources and Environmental Protection Cabinet] Commonwealth of Kentucky upon demand. A summary of such data indicating the Significant Industrial User's compliance with this Chapter shall be prepared semi-annually and submitted to the General Manager. In addition the General Manager may inspect and copy all records pertaining to the user's wastewater discharge.

3. Any Significant Industrial User shall install at [his] their own cost and expense suitable monitoring equipment to facilitate the accurate observation, sampling and measurement of wastes. Such equipment shall be maintained in proper working order and kept safe and accessible at all times.

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c. Inspection, Sampling and Analysis.

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2. Analysis of Discharges. At the owner's expense, laboratory analysis of discharge samples shall be performed by a laboratory, [acceptable to the General Manager] certified by the Kentucky Laboratory Certification Program, in accordance with methods as outlined in 40 CFR 136 and 40 CFR 261, or other approved EPA methods. If the POTW samples a Significant Industrial User and determines a violation has occurred BGMU shall sample, at the owners expense, a second time within thirty (30) days.

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d. Public Access to Information; Exceptions.

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- 3. Information accepted by BGMU as confidential, shall not be transmitted to the general public by BGMU until the expiration of three (3) days following the giving of written notice by BGMU to the user of BGMU's intention to divulge such information to the general public. The [Kentucky NREPC] State shall have unrestricted access to all information submitted to BGMU to include that information deemed confidential.
 - e. Permit to Discharge.
- 1. No person shall discharge or cause to be discharged any Industrial Wastewater directly or indirectly to sewerage facilities owned by BGMU or Warren County Water

District without first obtaining a permit from BGMU for Industrial Wastewater discharge when deemed necessary. This regulatory authority shall extend to any extra jurisdictional agencies or industries which contribute wastewater to BGMU's wastewater system. These permits shall include the permit issuance, effective and expiration dates; a statement that the permit is non-transferable; effluent limits based on applicable Pretreatment Standards; self-monitoring, sampling, reporting, notification and record keeping requirements; the waiver process to seek relief for monitoring a pollutant neither present or expected to be present in a discharge; a statement of applicable penalties for violation of the Pretreatment Standards and Regulations; requirements to control slug discharges; and language detailing any grants by BGMU General Manager authorizing waivers from monitoring.

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8. Upon approval of the permit application, BGMU will issue a wastewater discharge permit incorporating discharge conditions, monitoring schedules and locations, compliance schedules, etc., tailored to the individual industrial user. This wastewater discharge permit shall be issued for a specified time period not to exceed five (5) years. A permit may be issued for a period less than a year or may be stated to expire on a specific date. The user shall apply for permit reissuance a minimum of one hundred eighty (180) days prior to the expiration of the user's existing permit. The terms and conditions of the permit may be subject to modification by BGMU during the term of the permit as limitations or requirements are modified or other just cause exists. The user shall be informed of any proposed changes in [his] the permit at least thirty (30) days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.

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13. Any suspended discharger may file with the General Manager, a request for a meeting with the Board of Directors. The Board shall meet within thirty (30) days of the receipt by the

General Manager such request. The Board shall hold a meeting on the suspension and either confirm or revoke the action of the General Manager. Reasonable notice of the meeting shall be given to the suspended discharger. At this meeting the suspended discharger may appear personally or through counsel, and present evidence in [his] their own behalf.

Discharge on a finding that the discharger has violated any provisions of this Chapter. No revocation shall be ordered until a meeting on the question has been held by the Board. At this meeting, the discharger may appear personally or through counsel and present evidence in [his] their own behalf. Notice of the meeting shall be given to the discharger at least fifteen (15) days prior to the date of the meeting.

23. Upper limitations have been established for conventional pollutants for Industrial Wastewater discharges. Conventional pollutants include Biochemical Oxygen Demand (BOD₅), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Ammonia Nitrogen (NH₃-N), Total Oil & Grease (O&G) and Total Phosphorus (T-P). All Significant Industrial Users shall not exceed the following discharge limits:

Constituents	Limits mg/1
BOD ₅	4,000
COD	<u>10,000</u>
TSS	<u>7,000</u>
NH ₃ -N	<u>56</u>
O&G (Total)	390
<u>T-P</u>	<u>57</u>

23-3.08 Powers and Authority of Inspectors.

a. The General Manager and other duly authorized employees of BGMU bearing proper credentials and identification shall be permitted to enter all properties for the purposes of

inspection, observation, measurements, sampling and testing in accordance with the provisions of this Chapter. The General Manager, or [his] representative, shall have the authority to inquire into any processes including metallurgical, chemical, oil, refining, ceramic, paper or other industries even beyond that point having a direct bearing on the kind and source of discharge to the public sanitary sewer.

23-3.09 Enforcement and Abatement.

a. General. BGMU through the General Manager or [his] designee, to insure compliance with this Subchapter, and as permitted through 40 CFR Subchapter N, 401 through 471 and 401 KAR 5:057 may take the following enforcement steps against Significant Industrial Users in noncompliance with this Subchapter. The remedies available to the General Manager include injunctive relief, civil and criminal penalties, immediate discontinuance of discharges and/or water and/or electric service and the publishing of the list of significant violators annually. The enforcement authority shall be vested in the General Manager [of BGMU] or [his] designee. This designee shall be the duly authorized employee as authorized under 40 CFR 403.12 (m).

All violations of requirements of this Subchapter must be reviewed and responded to by the General Manager or [his] representative. In general, the General Manager shall notify the Significant Industrial User when a violation occurs. For all violations, the General Manager shall receive an explanation and, as appropriate, a plan from the Significant Industrial User to correct the violation within a specific time period. If the violation(s) persist or the explanation and/or plan are not adequate, the General Manager's response shall be more formal and commitments or schedules, as appropriate, for compliance will be established in an enforceable document. The enforcement response selected will be related to the seriousness of the violation. Enforcement responses will be escalated if compliance is not achieved expeditiously after the initial action. A significant violation will require a

formal enforcement action. The full scale of enforcement actions will be detailed in BGMU's Pretreatment Program Enforcement Response Plan.

- b. Enforcement Action.
 - 2: Formal Notice. These actions include the following:
- (a) Notice of Violation. Any person found to be violating any provision of this Subchapter, wastewater discharge permit or any order issued hereunder shall be served by BGMU's General Manager with a written notice stating the nature of the violation.
- (b) Administrative Order/Fines. Any person who, after receiving a Notice of Violation, and continue to discharge in violation of this Chapter or of the pretreatment standard or requirements or is determined to be a chronic or persistent violator, shall be ordered to appear before the General Manager. At said appearance, a compliance schedule will be given to the violating user and an administrative fine assessed. The fine shall be determined on a case-by-case basis which shall consider the type, severity, duration and number of violations, severity of impact on the POTW, impact on human health, the Significant Industrial User's economic benefit from the violation, past history of the Significant Industrial User, and good faith efforts made by the Significant Industrial User. The fine shall be a non-arbitrary but appropriate amount as defined in Section 23-3.10 in this Subchapter.

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k. Violations Not Involving Imminent Danger.

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2. Proceedings in the event of failure of Significant Industrial User to furnish satisfactory evidence of corrective action within time prescribed by notice. In the event the Significant Industrial User fails to furnish satisfactory evidence to the General Manager that corrective action has been taken within the time prescribed by the notice (or any extensions of time granted by the General

Manager), the General Manager may:

- (a) Suspend the water, sewer and/or electric service if this action will serve to prevent any further violations by the Significant Industrial User.
- (b) Sever [his] sewer connection(s), or take such other steps as may be required in order to insure that no prohibited wastewater is introduced into the public sanitary sewer.
 - 1. Violations Involving Imminent Danger.
- 1. The General Manager may suspend the water and/or electric service when such suspension is necessary, in the opinion of the General Manager, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons to the environment, causes interference to the wastewater system or causes BGMU to violate any condition of its NPDES Permit.
- 2. Any person notified of a suspension of [his] water and/or electric service shall immediately stop or eliminate the discharge. In the event of a failure of the person to comply voluntarily with the suspension order, the General Manager shall take such steps as deemed necessary including immediate severance of the sewer connection to prevent or minimize damage to the wastewater system or endangerment to any individuals. The General Manager shall reinstate the water, sewer and/or electric service upon proof of the elimination of the noncomplying discharge. A detailed written statement submitted by the Significant Industrial User describing the causes of the harmful discharge and the measures taken to prevent any future occurrence shall be submitted to the General Manager within five (5) days of the date of occurrence.
- 2. The provisions of this Ordinance are hereby declared to be severable, and if any section, phrase or provision shall for any reason be declared invalid, such declaration of invalidity shall not affect the validity of the remainder of this Ordinance.

3. All prior Municipal Orders or Ordinances or parts of any Municipal Order or Ordinance in
conflict herewith are hereby repealed.
4. This Ordinance is adopted pursuant to KRS 83A.060 in that it was introduced on
May 16, 2017, and given final reading on June 6, 2017,
and said Ordinance shall be in full force and effect upon signature, recordation and publication in
summary pursuant to KRS Chapter 424.
ADOPTED: June 6, 2017
APPROVED: Barre Wilkerson Mayor, Chairman of Board of Commissioners
ATTEST: Katy Stora Der Ward City Clerk

SPONSORED BY: Kevin D. DeFebbo, City Manager, 05/09/2017, 4:20 p.m.