



# CITY OF ANN ARBOR, MICHIGAN

Public Services Area  
Wastewater Treatment Services  
49 Old Dixboro Road  
Ann Arbor, Michigan 48105-9405  
Phone: (734) 794-6450 Fax: (734) 971-9704

November 29, 2011

Mr. Tim Cullen  
UM OSEH  
1239 Kipke Drive  
Ann Arbor, MI 48105



RE: Ann Arbor Wastewater Treatment Plant  
Industrial Pretreatment Program  
Industrial User Permit

Dear Mr. Cullen:

Enclosed is the Industrial User Permit No. 06042012-001 covering discharge from your facility into the City's sanitary sewer system.

This permit is effective June 04, 2012 and expires on June 03, 2017. Please carefully review this document in its entirety. The following key elements are summarized for your convenience:

- PART 2. Monitoring requirements. B. Special Monitoring Provisions
- Part 4. Other Conditions of Discharge
- Appendix A
- Appendix B
- Appendix C

Feel free to contact me at (734) 794-6450, extension 43822, if you have any questions or desire to further discuss this matter.

Sincerely,

Keith Sanders  
Assistant Manager, Wastewater Treatment Plant



INDUSTRIAL USER PERMIT No. **06042012-001**

**The University of Michigan  
North Campus Research Complex**

**2800 Plymouth Road and 1600 Huron Parkway  
Ann Arbor, MI 48105**

Mailing address: **UM OSEH, 1239 Kipke Drive, Ann Arbor, MI 48109-1010**

The above-named User is hereby authorized to discharge industrial wastewater from the above-named facility and through the outfalls identified herein into the City of Ann Arbor Publicly Owned Treatment Works (POTW) in accordance with the conditions set forth in this Permit and Chapter 28 of the Ann Arbor City Code (Sewer Use Ordinance). Compliance with this Permit does not relieve the User of its obligation to comply with any or all applicable pretreatment regulations, standards, or requirements under local, State, and Federal laws, including any such laws, regulations, standards, or requirements that may become effective during the term of this Permit.

Non-compliance with any term or condition of this Permit shall constitute a violation of the City of Ann Arbor Sewer Use Ordinance.

This Permit shall become effective on **June 04, 2012** and shall expire at midnight on **June 03, 2017**.

If the User wishes to continue to discharge after the expiration date of this Permit, a complete application must be filed for reissuance of this Permit in accordance with the requirements of the sewer use ordinance, a minimum of 180 days prior to the expiration date of this Permit.

By: Carl J. Kenzie

Earl J. Kenzie, P.E.  
Manager, Wastewater Treatment Services

Issued this **4** th day of **June, 2012**.

## PART 1. EFFLUENT LIMITATIONS

- A. From the effective date until the expiration date of this Permit, the User is authorized to discharge wastewater to the City's POTW from the outfalls listed below.

<u>Outfall</u>	<u>Discharge Location and Description</u>
2800-01	Sanitary sewer upstream of 2800 Plymouth Road facility; located outside southwest corner of building B040.
2800-02	Sanitary sewer downstream of 2800 Plymouth Road facility; containing discharges of the North Campus Research Complex, the Powerhouse, and noncontact cooling water from the Cooling Tower; located in median of Huron Parkway, north of Baxter Road.
1600-01	Manhole on discharge line from Chiller Plant at 1600 Huron Parkway facility; containing discharges of noncontact cooling water from the Cooling Tower; located northeast of Building B800.

- B. From the effective date until the expiration date of this Permit, the outfall(s) described in Section A of this Part shall comply with all applicable laws, regulations, standards, and requirements contained in the Sewer Use Ordinance and any applicable State and Federal pre-treatment laws, regulations, standards, and requirements, including any such laws, regulations, standards, or requirements that may become effective during the term of this Permit.

From the effective date until the expiration date of this Permit, the outfall(s) described in Section A of this Part shall not exceed the following limitations:

- **Discharge limits set forth in Appendix A (for Outfalls 2800-01 and 2800-02) and Appendix B (for Outfall 1600-01), which are attached hereto and made part hereof.**

C. General Prohibited Discharges

Pursuant to the Sewer Use Ordinance, the User shall not discharge, cause to be discharged, or allow to be discharged into the POTW any of the following from any outfall:

1. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, pollutants with a closed cup flashpoint of less than 140 degrees Fahrenheit (60 degrees Centigrade), as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ATSM standard D-93-79 or D-93-80k (incorporated by reference, see 40 CFR S 260.11) or a Setaflash Closed Cup Tester, using the test method specified in ATSM Standard D-3278-78 (incorporated by reference, see 40 CFR § 260.11) and pollutants which cause an exceedance of 10% of the lower explosive limit (LEL) at any point within the POTW.

2. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute or chronic health and safety problems for workers.
3. Pollutants which cause or may cause corrosive structural damage to the POTW or having a pH less than 5.0 standard units or more than 10.0 standard units.
4. Solid or viscous pollutants in amounts which could cause or do cause either obstruction to flow or interference in the POTW.
5. Any pollutant, including oxygen-demanding pollutants, released in a discharge at a flow rate and/or pollutant concentration which will cause or may cause interference in the POTW.
6. Pollutants which may cause or do cause:
  - a. Impairment of the strength or durability of structures in the POTW.
  - b. Restriction of hydraulic capacity of structures in the POTW.
  - c. Unsafe conditions to personnel in the inspection or maintenance of structures of the POTW.
  - d. Unsafe conditions to the general public, with respect to the collection system.
7. Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature of the flow at the POTW treatment plant headworks exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Michigan Department of Environmental Quality (MDEQ), upon request of the City, approves alternate temperature limits.
8. Pollutants which cause or may cause pass through or interference.
9. Any pollutants which exceed the limitations set forth in a Federal Categorical Pretreatment Standard.
10. Any noxious or malodorous liquids, gases, or solids which either singly or by interaction are capable of creating a public nuisance or a hazard to life.
11. Any pollutant introducing colors not removed in the POTW treatment process, such as but not limited to, dye wastes and vegetable tanning solutions.
12. Any discharge from any environmental cleanup that is regulated under the Michigan Environmental Response Act (1982 Public Act 307, as amended) unless approved by City Council.
13. Any non-contact cooling water, stormwater, groundwater, or surface water, unless separate POTW facilities are available and identified for the discharges or unless the administrator gives written permission to the user for a temporary discharge of the waters based on hydraulic capacity and treatment impacts. Whether or not permission is given for a temporary discharge and its scope and duration shall be at the sole discretion of the administrator.
14. Any radioactive wastes in quantities defined by applicable state and federal regulations as harmful.
15. Any grease or other pollutants that will become solid or viscous at a temperature of 60 degrees Centigrade or below after being discharged into the POTW.

16. An insoluble substance retained by a standard No. 8 sieve or having any dimension greater than 1/2-inch (1.27 centimeters).
17. Insoluble substances having a specific gravity greater than 2.65.
18. Improperly shredded garbage.
19. Sludge, screenings or other residues which result from a treatment process unless the administrator has determined that it is amenable to treatment by the POTW without application of unusual means or expense.
20. Any petroleum oil or grease, non-biodegradable cutting oil, mineral oil, whether or not the oils or grease are used oils or grease.
21. A 7-day average flow which exceeds 2 percent of the average daily influent to the entire POTW for the previous calendar year.
22. Wastewater causing, alone or in combination with wastewater from other users, the POTW's treatment plant effluent to fail a toxicity test, violate its NPDES permit, or violate its residuals disposal program (PERM).

## PART 2. MONITORING REQUIREMENTS.

- A. From the period beginning on the effective date of this Permit and lasting until the expiration date of this Permit, the User shall sample and analyze the outfalls described in Section A of Part 1 as follows:
  - **Monitoring requirements set forth in Appendix A (for Outfalls 2800-01 and 2800-02) and Appendix B (for Outfall 1600-01), which are attached hereto and made part hereof.**
- B. Special Monitoring Provisions. From the period beginning on the effective date of this Permit and lasting until the expiration date of this Permit, the following additional monitoring requirements shall apply to the User:
  - **The User shall annually submit a report identifying the following information for each "Legal Entity" operating out of the North Campus Research Complex (i.e., tenants not officially affiliated with The University of Michigan):**
    - a. **Name**
    - b. **Location**
    - c. **Mailing Address**
    - d. **Telephone number**
    - e. **Primary Contact Name and Title**

**For each such Legal Entity, the City reserves the right to perform user surveys, conduct inspections including sample collection, and execute other actions deemed necessary for management and operation of the POTW and enforcement of the Sewer Use Ordinance and applicable laws or regulations.**

- C. All measurements, tests, and analyses of the characteristics of the discharge shall be determined in accordance with the EPA-approved procedures contained in 40 CFR Part 136 or, upon approval of the City, any validated methods from recognized authority in cases where the above referenced procedures are not available or do not apply to the characteristic involved.
- D. Sampling and Flow Monitoring Equipment.
1. Samples shall be collected as follows:
    - a. Unless approved otherwise by the City, composite samples shall be collected during a 24-hour period via automatic sampler at a rate proportional to the sampled stream flow.
    - b. Unless approved otherwise by the City, grab samples for all but pH shall represent the average of at least four (4) grab samples collected at intervals spaced appropriately for the discharge during a 24-hour period.
    - c. Unless approved otherwise by the City, grab samples for pH shall represent the minimum and maximum of at least four (4) grab samples collected at intervals spaced appropriately for the discharge during a 24-hour period.
    - d. Multiple grab samples collected during a 24-hour period may be composited prior to analysis as follows: in the laboratory or in the field for cyanides; only in the laboratory for fats, oil & grease; and not composited for pH.
  2. The User shall provide, at its expense, an approved flow meter where required. Meters for measuring flow shall meet a City-approved standard of accuracy, and may be either temporary or permanent as approved by the City.

### PART 3. REPORTING REQUIREMENTS.

- A. Periodic Monitoring Reports. From the period beginning on the effective date of this Permit and lasting until the expiration date of this Permit, the User shall report monitoring results as follows in addition to the general reporting requirements specified herein:
- **Reporting frequencies set forth in Appendix A (for Outfalls 2800-01 and 2800-02) and Appendix B (for Outfall 1600-01), which are attached hereto and made part hereof.**

The monitoring report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed, including flow measurements if required. The report shall include the following at a minimum:

1. The date of sampling or measurements;
2. The method(s) of sampling or measurements;
3. Name of laboratory that performed the analyses;
4. The analytical techniques or methods used; and
5. The results of such analyses.

Where required by the City, the monitoring report shall also include the exact place and time of sampling or measurements; who performed the sampling or measurements; sample preservation techniques or procedures; completed chain-of-custody forms; the date(s) analyses were performed; and copies of quality assurance/quality control (QA/QC) reports for the laboratory that performed the analyses.

B. Additional Monitoring Data. If the User monitors any pollutant more frequently than required by this Permit, using procedures described in Parts 2.C and 2.D, the results of such monitoring shall be included in any calculations of compliance with effluent limitations and shall be reported in the periodic monitoring report submitted to the City. Such increased monitoring frequency shall also be indicated in the periodic report.

C. Certification. All reports required by this Part shall include a cover letter signed by the User's authorized representative and containing the following certification statement:

*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.*

D. Reporting.

1. Surveillance Reports. The User shall submit the reports which are checked below:

Initial Report -- due by: \_\_\_\_\_

Monthly Reports -- due by the 15th day of the month for the preceding month, beginning: \_\_\_\_\_

Quarterly Reports -- due by January 31st, April 30th, July 31st, and October 31st for the quarter ending on the last day of the preceding month, beginning: \_\_\_\_\_

Semi-Annual Monitoring Reports -- due by June 30th and December 31st of each year for the preceding six (6) calendar months, beginning: \_\_\_\_\_

Annual Reports -- due by December 31st of each year for the preceding twelve (12) calendar months, beginning: **the first full year after the effective date of this permit.**

2. Exceedance Notification. The User shall verbally notify the City of any exceedance of discharge limits contained in this Permit, or any noncompliance with applicable pretreatment standards and requirements contained in the Sewer Use Ordinance, within twenty-four (24) hours of becoming aware of the exceedance. The User shall

then submit a written follow-up report to the City within five (5) days of becoming aware of the exceedance. This report shall include the following:

- a. Description of the exceedance, the cause thereof, and known or estimated impact on the User's compliance status.
- b. Duration of the exceedance including exact dates and times; concentrations of violating constituents; known or estimated loads of violating constituents; and, if not already corrected, the anticipated time the exceedance is expected to continue.
- c. All steps taken or intended to be taken to reduce, eliminate and prevent reoccurrence of such an exceedance.

The User shall repeat sampling and analysis of all violating constituents and submit, in writing, the results of this second analysis to the City within thirty (30) days after becoming aware of the exceedance.

3. Accidental Discharge Notification. The User shall verbally notify the City immediately upon occurrence of an accidental discharge of substances prohibited by the Sewer Use Ordinance, or release of any slug loads or spills that may enter the public sewer system or the "Surface Waters of the State." The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective action taken. Within five (5) days following an accidental discharge the User shall submit a written report to the City. That report shall contain the description and cause of the discharge, the impact on the User's compliance status, the discharge location, concentration and volume of the discharge, duration of the discharge, date and time of the discharge, steps taken to reduce or eliminate the discharge. The User's notification of accidental releases in accordance with this section does not relieve it of other reporting requirements that arise under local, State, or Federal laws.
4. Bypass Notification. Bypass means the intentional diversion of waste streams from any portion of the User's pretreatment facility. Bypass is strictly prohibited, unless all three of the following conditions are met: the Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; there were no feasible alternatives to the Bypass such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime, except where the Bypass occurred during normal periods of equipment downtime or preventative maintenance and where adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment; and the User submitted the following required notifications:
  - a. If the need for a Bypass is known in advance, the User shall submit a written prior notice to the City at least ten (10) days before the date of the planned Bypass. The City may, at its discretion, approve or reject the planned Bypass after considering potential effects on the POTW.
  - b. In the case of an unanticipated Bypass, the User shall submit a verbal notification to the City within twenty four (24) hours of becoming aware of the Bypass. The User shall then submit a written follow-up report to the City within five (5) days of becoming aware of the Bypass. This report shall include the following:
    - (1) Description of the Bypass, the cause thereof, and known or estimated impact on the User's compliance status.



- (2) Duration of the Bypass including exact dates and times; measured concentrations of affected constituents; known or estimated loadings of affected constituents; and, if not already corrected, the anticipated time the Bypass is expected to continue.
- (3) All steps taken or intended to be taken to reduce, eliminate and prevent reoccurrence of such a Bypass.

If the unanticipated Bypass results in an exceedance of discharge limits contained in this Permit, or any noncompliance with applicable pretreatment standards and requirements contained in the Sewer Use Ordinance, the User shall also comply with the Exceedance Notification requirements of this Part.

5. Changed Discharge Notification. The User shall notify the City as soon as possible in advance of the introduction of new wastewater pollutants or any substantial change in the volume or character of pollutants in the User's discharge, including hazardous wastes. This requirement includes discharge of a pollutant or wastewater not described in the Permit Application, or in amounts in excess of the amounts described in the Permit Application.
6. New Pretreatment Equipment Notification. The User shall notify the City in writing within five (5) days after completion of a new installation of pretreatment facilities or continuous monitoring equipment, and the time it intends to commence operation thereof. The User shall notify the City when start-up of such facilities will occur and the person who will conduct any tests to be performed.
7. New Process Notification. The User shall notify the City prior to the introduction of new wastewater pollutants or any substantial change in the volume or characteristics of the wastewater being introduced into the POTW from the User's industrial process. Formal written notification shall follow within 30 days of such introduction.
8. Federal Categorical Pretreatment Standards ("FCPS") Reports, As Applicable.
  - a. Baseline Monitoring Report
    - (1) Where the User is subject to a FCPS and defined as an Existing Source pursuant to 40 CFR 403, a Baseline Monitoring Report meeting the requirements of 40 CFR 403.12(b) shall be submitted to the City at least one hundred eighty (180) days after the effective date of the corresponding FCPS or at least one hundred eighty (180) days after a City or MDEQ determination that the User is subject to an already effective FCPS, whichever is later.
    - (2) Where the User is subject to a FCPS and defined as a New Source pursuant to 40 CFR 403, a Baseline Monitoring Report meeting the requirements of 40 CFR 403.12(b) shall be submitted to the City at least ninety (90) days prior to commencement of discharge into the POTW.
  - b. Report on Compliance
    - (1) Where the User is subject to a FCPS and defined as an Existing Source pursuant to 40 CFR 403, a Report on Compliance meeting the requirements of 40 CFR 403.12(d) shall be submitted to the City within ninety (90) days following the final compliance date of the corresponding FCPS or within ninety (90) days following the compliance date established by the City or

MDEQ after determining that the User is subject to an already effective FCPS, whichever is later.

- (2) Where the User is subject to a FCPS and defined as a New Source pursuant to 40 CFR 403, a Report on Compliance meeting the requirements of 40 CFR 403.12(d) shall be submitted to the City within ninety (90) days following commencement of the discharge into the POTW.

## PART 4. OTHER CONDITIONS OF DISCHARGE

A. Contacts. All references made herein to the City shall mean the City of Ann Arbor and, specifically, the Manager of Wastewater Treatment Services or his/her designee. Notifications, reports, and other communications required by this permit shall be submitted as follows:

1. All written communications:

*Assistant Manager of Wastewater Treatment Services  
City of Ann Arbor Wastewater Treatment Plant  
49 South Dixboro Road  
Ann Arbor, MI 48105*

2. Verbal communications that occur during normal working hours (8:00 AM to 4:30 PM on Monday through Friday, excluding holidays):

*Assistant Manager of Wastewater Treatment Services  
(734) 794-6450, ext. 43822*

3. Verbal Communications that occur outside of normal working hours:

*Plant Control Room  
(734) 845-0781*

B. Maintenance of Records.

1. The User shall maintain copies of the reports required by this Permit and records pertaining to those reports. Such reports and records shall be retained by the User for at least three (3) years.
2. The User shall also maintain for at least three (3) years records regarding the User's generation, treatment, storage, or disposal of solid waste or hazardous waste, and make them available to the City for inspection and copying subject to the Confidential Information provisions in the Sewer Use Ordinance. The terms "solid waste" and "hazardous waste" shall have the same definition as provided in the Michigan Hazardous Waste Management Act, as amended, and rules promulgated thereunder.
3. These record maintenance periods shall be extended during the course of any unresolved litigation regarding the discharges of the User or when requested by the City, the MDEQ, or USEPA.

C. Upsets. An Upset means an exceptional incident in which there is unintentional and temporary exceedance of any discharge limits contained in this Permit, or any noncompliance with applicable pretreatment standards and requirements contained in the

Sewer Use Ordinance, because of factors beyond the reasonable control of the User. After an administrative ruling of an Upset, the User will not be liable for enforcement penalties but may still be required to pay the City for extra-strength surcharges and damages.

An Upset shall not include exceedances or noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless operation, or improper operation. It is the User's responsibility to control production and/or discharges to the extent necessary to maintain compliance with all applicable limits, pretreatment standards, and requirements upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment or disposal is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

In an enforcement proceeding, the User shall have the burden of proof by clear and convincing evidence to establish the occurrence of an Upset. The User seeking to establish the affirmative defense of an Upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:

1. An Upset occurred and the User can identify the cause(s) of the Upset;
2. The facility was at the time being operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures;
3. The User has submitted the following information to the City within 24 hours of becoming aware of the Upset (if this information is provided orally, a written submission must be provided within five (5) days):
  - a. A description of the discharge and cause of non-compliance;
  - b. The period of non-compliance, including exact dates and times or, if not corrected, the anticipated time over which the non-compliance is expected to continue; and
  - c. Steps being taken and/or planned to reduce, eliminate, and prevent recurrence of the non-compliance.

D. Special Terms and Conditions. The following additional provisions shall apply to the User under this Permit:

- **Special Terms and Conditions for Outfall 1600-01 noncontact cooling water discharge as set forth in Appendix C, which is attached hereto and made part hereof.**

## PART 5. GENERAL.

A. Special Agreement Provision. If this Permit contains effluent limits which are less restrictive than the limits set forth in the Sewer Use Ordinance, "Prohibited Discharges", such less restrictive effluent limits and this Permit do not create any vested rights or property rights for the User to continue discharging under such less restrictive effluent

limits. The City may terminate or modify such less restrictive effluent limits at will at any time by providing notice to the User.

- B. Inspection and Entry. The User shall allow an authorized representative of the City, upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the User's premises where a discharge originates, or where records must be kept under the conditions of this Permit;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
  3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit;
  4. Sample or monitor, for the purposes of assuring Permit compliance, any substances or parameters at any location; and
  5. Inspect any production, manufacturing, fabricating, or storage area where pollutants, regulated under the Permit, could originate, be stored, or be discharged to the POTW.
- C. Dilution. The User shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this Permit.
- D. Duty To Comply. The User must comply with all conditions of this Permit. Failure to comply with the requirements of this Permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties and injunctive relief.
- E. Duty To Mitigate. The User shall take all reasonable steps to minimize or correct any adverse impact to the POTW or the environment resulting from non-compliance with this Permit, including accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
- F. Permit Modifications. The City shall have the right to amend any Permit issued hereunder in order to:
1. Assure compliance by the POTW with applicable laws, regulations, and the POTW NPDES Permit;
  2. Account for substantial changes in discharges by the User;
  3. Account for new information concerning the pollutants discharged by the User;
  4. Reflect changes in Federal or State laws and regulations or in City ordinances;
  5. In the event there are operational changes at the POTW that, as determined by the City, require revision of the Permit;
  6. Modify or terminate any special agreement provision contained in a Permit;
  7. Correct typographical or other errors in the Permit; or
  8. Reflect a transfer of the Permit.

The User shall be informed of any changes in the Permit at least thirty (30) days prior to the effective date of change, unless a shorter time is necessary to meet applicable law or to protect human health or the environment.

G. Permit Revocation. The City may revoke this Permit during its term or deny renewal of this Permit if:

1. The User has failed to comply with any condition of the Permit.
2. The User fails, in the Permit application or during the Permit issuance process, to disclose fully all relevant facts, or the User misrepresents any relevant fact at any time.
3. The City determines that the permitted discharge endangers human health or the environment and the threat can only be abated by revocation of the Permit.
4. A change in any condition that requires either a temporary or permanent reduction or elimination of the discharge.
5. The User is in default, after having received written notice of such default, in the payment of fees or other amounts owed to the City related to wastewater matters.
6. Non-compliance by the User with any provision of the Sewer Use Ordinance.

Upon revocation of its Permit, the User shall immediately terminate its discharge to the POTW.

H. Duty To Provide Information. The User shall furnish to the City within ten (10) days any information which the City may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The User shall also, upon request, furnish to the City within five (5) days copies of any records required to be kept by this Permit.

I. Civil and Criminal Penalties and Other Liability. The Sewer Use Ordinance provides that any User who violates a Use Permit is subject to administrative civil penalties up to \$1,000.00 per day per violation, judicial civil penalties as allowed for home rule cities per day per violation, and criminal penalties of a fine of up to \$500.00 per day per violation or by imprisonment for 90 days or both. The penalties may be cumulative. The User may also be subject to penalties and sanctions under State and Federal law. In addition to civil and criminal penalties, the User may be subjected to administrative and judicial orders and may be liable for costs, damages, and surcharges.

J. Limitations of Permit Transfer. This Permit is not assignable to another User or transferable to any other location without prior written approval of the City. The City shall approve a Use Permit transfer and make the necessary minor modifications to the Use Permit to show the transferee as the User, if the following conditions exist:

1. The transferor has not violated any provision of the Use Permit or of the Sewer Use Ordinance during the six (6) month period preceding the date of the transfer. The User, in the event of a transfer, shall provide a copy of this Permit to the transferee prior to the date of transfer. The transferee shall provide a written statement to the City acknowledging receipt of a copy of the Permit and stating the transferee's agreement to be bound by the terms of the Permit.

2. As of the date of the transfer, there are no unpaid charges or fees due to the City from the User related to use of the POTW.
  3. The application for the Use Permit filed by the User remains the same with respect to the discharge, facilities, and activities of the transferee, except as to the identity of the discharger.
  4. The transferor provides written evidence to the City that a copy of the Use Permit has been provided to the transferee.
- K. Falsifying Information. It is a crime to knowingly make any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to this Use Permit, or to falsify, tamper with, or knowingly render inaccurate any monitoring device or method required under this Permit.
- L. Severability. The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance, is held invalid, the application of the provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

## APPENDIX A

## DISCHARGE LIMITS AND SELF-MONITORING REQUIREMENTS

**THE UNIVERSITY OF MICHIGAN  
NORTH CAMPUS RESEARCH COMPLEX**

For the period beginning on the effective date of this Permit until completion of the start-up period, the User shall operate, maintain, and monitor the discharge from the indicated outfall(s) in accordance with the following requirements:

• **OUTFALL 2800-01 (2800 Plymouth Road):**

Parameter (Units)	Discharge Limit	Monitoring Frequency	Reporting Frequency	Sampling Method
5-day BOD (mg/L)	(monitor)	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Grab Composite
Suspended Solids (mg/L)	(monitor)			Grab Composite
Phosphorus, Total (mg/L)	(monitor)			Grab Composite
Ammonia Nitrogen (mg/L)	(monitor)			Grab Composite
Fats, Oil & Grease (mg/L)	(monitor)			Grab
pH (s.u.)	(monitor)			Grab
Arsenic (µg/L)	(monitor)			Grab Composite
Cadmium (µg/L)	(monitor)			Grab Composite
Chromium (µg/L)	(monitor)			Grab Composite
Copper (µg/L)	(monitor)			Grab Composite
Cyanide, Total (µg/L)	(monitor)			Grab
Lead (µg/L)	(monitor)			Grab Composite
Mercury (µg/L)	(monitor)			Grab Composite
Molybdenum (µg/L)	(monitor)			Grab Composite
Nickel (µg/L)	(monitor)			Grab Composite
Selenium (µg/L)	(monitor)			Grab Composite
Silver (µg/L)	(monitor)			Grab Composite
Zinc (µg/L)	(monitor)			Grab Composite

BOD biochemical oxygen demand

mg/L milligrams per liter

s.u. standard units

µg/L micrograms per liter

Grab Composite at least four appropriately spaced grab samples (collected between 6am and 6pm) which are blended in equal volumes to form a single sample for analysis

## APPENDIX A (continued)

- **OUTFALL 2800-02 (2800 Plymouth Road):**

Parameter	Discharge Limit	Monitoring Frequency	Reporting Frequency	Sampling Method
5-day BOD (mg/L)	1,000	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Grab Composite
Suspended Solids (mg/L)	1,000			Grab Composite
Phosphorus, Total (mg/L)	20			Grab Composite
Ammonia Nitrogen (mg/L)	40			Grab Composite
Fats, Oil & Grease (mg/L)	100			Grab
pH (s.u.)	$\geq 5.0$ and $\leq 10.0$			Grab
Arsenic ( $\mu\text{g/L}$ )	2,100			Grab Composite
Cadmium ( $\mu\text{g/L}$ )	1,000			Grab Composite
Chromium ( $\mu\text{g/L}$ )	4,000			Grab Composite
Copper ( $\mu\text{g/L}$ )	4,000			Grab Composite
Cyanide, Total ( $\mu\text{g/L}$ )	1,000			Grab
Lead ( $\mu\text{g/L}$ )	500			Grab Composite
Mercury ( $\mu\text{g/L}$ )	<0.2			Grab Composite
Molybdenum ( $\mu\text{g/L}$ )	4,900			Grab Composite
Nickel ( $\mu\text{g/L}$ )	3,000			Grab Composite
Selenium ( $\mu\text{g/L}$ )	1,400			Grab Composite
Silver ( $\mu\text{g/L}$ )	240			Grab Composite
Zinc ( $\mu\text{g/L}$ )	3,000			Grab Composite

BOD biochemical oxygen demand

mg/L milligrams per liter

s.u. standard units

$\mu\text{g/L}$  micrograms per liter

Grab Composite at least four appropriately spaced grab samples (collected between 6am and 6pm) which are blended in equal volumes to form a single sample for analysis



## APPENDIX B

## DISCHARGE LIMITS AND SELF-MONITORING REQUIREMENTS

THE UNIVERSITY OF MICHIGAN  
NORTH CAMPUS RESEARCH COMPLEX

For the period beginning on the effective date of this Permit until completion of the start-up period, the User shall operate, maintain, and monitor the discharge from the indicated outfall(s) in accordance with the following requirements:

- **OUTFALL 1600-01 (1600 Huron Parkway):**

Parameter (Units)	Discharge Limit	Monitoring Frequency	Reporting Frequency	Sampling Method
5-day BOD (mg/L)	1,000	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Annually for three (3) years then, upon City approval, once every five-year permit cycle	Grab Composite
Suspended Solids (mg/L)	1,000			Grab Composite
Phosphorus, Total (mg/L)	20			Grab Composite
Ammonia Nitrogen (mg/L)	40			Grab Composite
Fats, Oil & Grease (mg/L)	100			Grab
pH (s.u.)	≥5.0 and ≤10.0			Grab
Arsenic (µg/L)	2,100			Grab Composite
Cadmium (µg/L)	1,000			Grab Composite
Chromium (µg/L)	4,000			Grab Composite
Copper (µg/L)	4,000			Grab Composite
Cyanide, Total (µg/L)	1,000			Grab
Lead (µg/L)	500			Grab Composite
Mercury (µg/L)	<0.2			Grab Composite
Molybdenum (µg/L)	4,900			Grab Composite
Nickel (µg/L)	3,000			Grab Composite
Selenium (µg/L)	1,400			Grab Composite
Silver (µg/L)	240			Grab Composite
Zinc (µg/L)	3,000			Grab Composite

BOD biochemical oxygen demand

mg/L milligrams per liter

s.u. standard units

µg/L micrograms per liter

Grab Composite at least four appropriately spaced grab samples (collected between 6am and 6pm) which are blended in equal volumes to form a single sample for analysis

APPENDIX C  
**SPECIAL CONDITIONS**  
**THE UNIVERSITY OF MICHIGAN**  
**NORTH CAMPUS RESEARCH COMPLEX**

For the period beginning on the effective date of this Permit until completion of the start-up period, the User shall operate, maintain, and monitor the discharge from the indicated outfall(s) in accordance with the following requirements:

- **OUTFALL 1600-01 (1600 Huron Parkway):**

Pursuant to an existing agreement between the City of Ann Arbor and the University of Michigan (U of M) North Campus Research Complex (NCRC), discharge of noncontact cooling water from the Cooling Tower system at 1600 Huron Parkway into the City's sanitary sewer system located along the east property line is permitted subject to the following conditions:

1. Flow will be limited to an instantaneous maximum of 143 GPM (0.32 cfs).
2. U of M will ensure the discharge into the subject sewer will be in compliance with the site's industrial user permit and the Sewer Use Ordinance. If it becomes known that the discharge is not in compliance, U of M will promptly notify the City and cease discharge until compliance is ensured.
3. When condenser water conductivity reaches the high limit set point, valve VA-94 opens to blow down until conductivity is back within limits. This water is sent to the City sanitary line which is monitored via instrumentation in a "remote sump" or diverted to the backwash sump depending on certain conditions. If this flow detected in the "remote sump" exceeds the set point\*, valve VA-95 diverts the flow to the backwash sump until the flow rate drops below this set point. At that point VA-95 diverts the flow to the remote sump.

If the backwash sump level rises too high while the remote sump level is also high, the blow down valve VA-94 closes (even if conductivity is still above limits), and the Backwash Pumps BWP-1, -2 and/or -3 are inhibited from starting until the remote sump level drops within limits again.

\* When the level of the City sewer as measured in City manhole 71-65441 reaches 90%, the Operator will receive a high level alarm. When the level reaches 95%, the high-high level alarm sounds and VA-95 diverts the flow to the backwash sump until the level drops below 90% and remains below 90% for 15 minutes.

4. The flow meter type, location, and manufacture previously approved by the City will be maintained to measure the flow from the cooling tower blow down. Additionally, the remote level sensor (located in City manhole 71-65441) and equipment utilized to measure the capacity in the City sewer must be maintained, tested, and calibrated annually. Reports documenting the maintenance and testing of the devices will be supplied annually to the City.
5. This permission may be revoked by the City at any time based upon recommendation of its staff. Consideration of such a recommendation will include evaluation of available hydraulic capacity and treatment impacts. Additionally, any applicable fees as determined by the City will be assessed for this discharge.