**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**



WATER RESOURCES DIVISION

**PERMIT APPLICATION FOR WASTEWATER SYSTEMS**

Construction - Alteration - Addition or Improvement as Described Herein

*Required under the Authority of Part 41, Sewerage Systems, of 1994 PA 451, as amended (Act 451)*

This application becomes a Part 41 Construction Permit only when signed and issued by authorized DEQ staff.

**INSTRUCTIONS:** Complete items 1 through 32 on this form and complete the Project Basis of Design (attached form EQP-4600A) or provide same information. Print or type all information except for signatures. Complete the Streamlined Checklist (EQP5937) for sewer projects that qualify; checklist available at [www.michigan.gov/deq](http://www.michigan.gov/deq) (select Water; then select Wastewater Construction). Complete the   
Non-Governmental Ownership Checklist (attached form EQP-4600C) for non-governmentally owned projects. Deliver complete application, plans and specifications, and attachments to the DEQ district office having jurisdiction for the project.

**PROCESSING TIME FRAME:** Part 13, Permits, of Act 451 allows 150 days for processing of an administratively complete Part 41 permit application, with extensions available when requested by the applicant. However, permits are generally processed within 45 days or less for routine projects. For information regarding recent permit processing time frames, refer to the [WRD Metrics Web page](http://www.michigan.gov/deq/0,4561,7-135-3313-264982--,00.html) (refer to metric B-9). For a fee, an expedited permit review process is available for applicants seeking quicker review time frames; information about this process is available at [www.michigan.gov/deq](http://www.michigan.gov/deq) (select Water; then select Wastewater Construction) or click [here](http://www.michigan.gov/deq/0,4561,7-135-3313_44117-172716--,00.html).

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| **REQUIRED NOTIFICATIONS**: The permittee shall provide Startup Notification (just prior to excavation) including permit number and date of issuance and Completion Notification (upon completion of the project) including permit number and date of issuance to the DEQ district office having jurisdiction for the project (attached form EQP-4600B). |

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| **Permit Number** (DEQ use only) | **Date of Issuance** (DEQ use only) | |
| 1. **Municipality or Organization Name** **and Address** that will own the wastewater facilities to be constructed. This permit is to be issued to:  City of Ann Arbor  301 E. Huron Street  PO Box 8647  Ann Arbor, MI 48107-8647 | Permit Stamp Area (DEQ use only) | |
| 2. **Owner’s Contact Person** (provide name for questions)  Contact: Alison Heatley  Phone: 734 794-6410 |
| 3. **Project Name** (Provide phase number if project is segmented)         .31 | 4. **Project Location**  City of Ann Arbor        Township | 5. **County** (location of project)  Washtenaw |

**ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL QUALITY**

cc:

Issued by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**If this box is marked see special conditions attached to this permit.**

**GENERAL PERMIT CONDITIONS**

a. This **PERMIT** only authorizes the construction, alteration, addition, or improvement of the wastewater system as described herein and is issued solely under the authority of Part 41 of Act 451.

b. Issuance of this **PERMIT** does not authorize any violation of federal, state, or local laws or regulations, nor does it obviate the need to obtain other permits or approvals from the DEQ or other units of government as may be required by law.

c. This **PERMIT** expires two (2) years after the above date of issuance unless construction starts prior to the expiration date in accordance with R 299.2939(2) of the Part 41 Administrative Rules.

d. Any portion of the herein described facilities constructed prior to the date of issuance is not authorized by this **PERMIT** and is a violation of Act 451.

e. No sewer shall be placed into service unless and until the outlet sewer has been constructed, tested, and placed into service.

f. Failure to meet any condition of this **PERMIT** or any requirement of Act 451 constitutes a violation of Act 451.

g. The applicant must provide notice of impending construction to public utilities and comply with the requirements of the Protection of Underground Facilities Act, 1974 PA 53, as amended (MISS DIG).

h. All earth changing activities must be conducted in accordance with Part 91, Soil Erosion and Sedimentation Control, of Act 451.

i. All construction activity impacting wetlands shall be conducted in accordance with Part 303, Wetlands Protection, of Act 451.

j. Intentionally providing false information in this application constitutes a violation of Section 249 of the Michigan Penal Code,   
1931 PA 328, as amended.

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Permit Application for Wastewater Systems (Continued)

1. **Facilities Description** In the space below, provide a detailed description of the proposed project in the format shown in the examples at the bottom of this page. Applications with inadequate facilities descriptions **will be returned**.Use additional sheets if needed.

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| ***EXAMPLES of facilities descriptions*** | |
| Sanitary Sewers and/or Force Mains | 250 feet of 10” sanitary sewer in Mark Avenue between John and Lincoln Streets.  **OR**  250’ of 10” sewer in an easement from the intersection of Mark Avenue and John Street to the north. |
| Pumping Stations | A wetwell/drywell, suction lift, submersible, etc. pumping station rated for 250 gpm at a TDH of 34’ located at the northeast corner of Mark Avenue and Lincoln Street, and equipped with two pumps, backup power, pump around capability, and all other equipment as required for proper operation. |
| Wastewater Treatment Facilities | A 10 million gpd (avg. flow) facility located at the north end of Ronald Street including a 2.0 million gallon equalization basin, six 0.5 million gallon primary clarifiers, four 0.75 million gallon aeration basins with fine bubble aerators, four 0.8 million gallon circular secondary clarifiers, ultraviolet disinfection, and all necessary appurtenances and piping as shown on the plans and described in the specifications for the proper operation of the treatment facility to provide a discharge quality in compliance with the facility’s discharge permit. |

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| **GENERAL PROJECT INFORMATION** – Complete All Boxes Below | |
| 7. Design engineer’s name, engineering firm, address, phone no., and e-mail address: | 8. Indicate who will prepare “as-built” plans for this project:  Design Engineer in Box 7  Other - name, organization, address, and phone no.:  City of Ann Arbor 734-794-6410  301 E. Huron Street  Ann Arbor, MI 48104 |
| 9. Indicate who will provide project construction inspection:  Engineering firm listed in Box 7  Other - name, organization, address, and phone no.:  City of Ann Arbor 734-794-6410  301 E. Huron Street  Ann Arbor, MI 48104 | 10. Is groundwater dewatering expected for this project?  YES  NO  If YES, provide dewatering specifications.  If YES, will water wells or water bodies be impacted?  YES  NO |
| 11. To which wastewater collection system will the project  connect? City of Ann Arbor | 12. To which wastewater treatment system will the project  connect? City of Ann Arbor  Final discharge is to:   Groundwater   Surface Water |
| 13. Will this project be within 50 ft. of a private water well?  YES  NO If YES, locate on plans. | 14. Will this project be within 200 ft. of a public water well?  YES  NO If YES, locate on plans. |
| 15. Is the project construction activity within a wetland (as defined by Section 30301(p) of Part 303 of Act 451)?  YES  NO  If YES, has application been made for a wetland permit?  YES  NO | 16. Is the project construction activity within a 100-year floodplain (as defined by Section 3101 of Part 31, Water Resources Protection, of Act 451, and the associated Administrative Rules)?  YES  NO  If YES, has application been made for a floodplain permit?  YES  NO |
| 17. Is the project construction activity below the ordinary high water mark of an inland lake or stream (as defined by Section 30101(f) of Part 301 of Act 451)?  YES  NO  If YES, has application been made for an inland lakes and streams permit?  YES  NO | 18. Is the project construction activity within 500 ft. of a lake, reservoir, or stream?  YES  NO  If YES, has application been made for a Soil Erosion and Sedimentation Control Permit?  YES  NO  Is owner listed in box 2 of this application an Authorized Public Agency (Section 9110 of Part 91 of Act 451)?  YES  NO |
| 19. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?    YES  NO Please contact 517-284-5587 with questions regarding the storm water regulations.  If YES, is project regulated by the National Pollutant Discharge Elimination System (NPDES) storm water regulations?  YES: Attach copy of application or NPDES authorization to discharge storm water from construction activities.  NO: Describe why activity is not regulated: | |
| 20. Is the project in or adjacent to a site of known soil or groundwater contamination?  YES  NO  If YES, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ office for listings of Michigan sites of environmental contamination. | |

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| **SEWER SYSTEM CAPACITY** | | | |
| 21. Are there any known capacity concerns in the collection system downstream of the proposed project?  YES  NO If YES, **include a full explanation with the application**. | | Flow  Rate | Units |
| 22. Proposed project peak design flow rate: | |  |  |
| 23. Total capacity of the existing outlet sewer: | |  |  |
| 24. Current peak hour flow into the existing outlet sewer: | |  |  |
| 25. Design capacity of nearest downstream pumping station (largest pump out of service): | N.A. |  |  |
| 26. Current peak hour flow into nearest downstream pump station: | N.A. |  |  |

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| **Overflows and Basement Flooding** – For Proposed Sewer Projects, Mark All Boxes That Apply |
| 27. Has the downstream collection system overflowed or flooded basements in the past five years?  YES   NO  If YES, attach a listing of events in the past five years including date, location, cause, and corrective action. |
| 28. Has the downstream collection system owner entered into an agreement satisfactory to the DEQ to address sanitary sewer overflows and flooding of basements?  YES  NO  If YES, enter agreement name and number: Administrative Consent Order ACO-SW03-003. |

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| 29. **treated wastewater Discharge Authorization** – Mark Boxes As Appropriate |
| A. Does project include a new treatment facility or expansion, a change in discharge method, or a new discharge location?  YES – Complete B below  NO – skip to item 30  B. If A is marked YES, indicate discharge authorization and provide the requested information:  1.  NPDES or Groundwater Discharge Permit No:       Permit Authorized Flow Rate:       Units:  2.  Local health department approval. **Include a copy of the approval with this application.** |

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| 30. **OWNERSHIP –** Mark A or B as Appropriate Below |
| A. Ownership will be by a governmental entity **before the sewer is placed in service**.  B. Ownership will be by a non-governmental entity, and a **completed Non-Governmental Ownership Checklist is included with this application.**  **Note:** A completed **Non-Governmental Ownership Checklist** (EQP-4600C) must be included with the application for **non-governmentally owned projects**. The checklist is attached to this application and the supporting information is available at [www.michigan.gov/deq](http://www.michigan.gov/Documents%20and%20Settings/HillC/Local%20Settings/Temporary%20Internet%20Files/Content.Outlook/G2NMCFPG/www.michigan.gov/deq) (select Water; then select Wastewater Construction). |

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| 31. **COMPLETE APPLICATION CHECKLIST** **–** Please confirm that this application is complete by using this checklist. Mark the box if the condition is met. This will help reduce DEQ review time and speed permit issuance. | |
| A.  Items 1 to 30 of the application are completed. | E.  Owner's certification signed and complete (item 32). |
| B.  A contamination management plan is included for sites with known contamination (item 20).  N.A. | F.  A detailed basis of design is included with the application. Form EQP-4600A (attached) or similar form is completed providing information required by Rule 35(3) of the Part 41 Administrative Rules of Act 451. |
| C.  For projects with local health department discharge authorization, a copy of the health department authorization is included (item 29).  N.A. |
| D.  For non-governmentally owned projects, provide the Non-Governmental Ownership Checklist and all documents required by the checklist (item 30).  N.A. | G. Final plans and specifications sealed and signed by a Michigan licensed professional engineer are provided. |

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| 32. **Owner's Certification –** The owner of the proposed facilities or the owner’s authorized representative shall complete the following owner's certification: |
| I,       (name), acting as the Project Engineer (title/position) for the City of Ann Arbor (entity owning proposed facilities) certify that the information provided in and with this application is true and accurate to the best of my knowledge, and I certify that the plans and specifications and other documents submitted to the DEQ with the Part 41 Permit Application accurately represent what I intend to construct under the terms of the Part 41 Permit, once issued. Also, I certify that this proposed project as detailed in the plans and specifications submitted under this application is in compliance with the requirement of Rule 41(a) of the Part 41 Administrative Rules of Act 451, which states that "Proper devices are or will be available and are in satisfactory operation for the collection, transportation and treatment before discharge into any public watercourse, lake, drain, ditch or groundwater, of the sewage or wastes collected or conveyed by such systems, or a definite program or agreement satisfactory to the department leading to the construction and operation of such collection, transportation or treatment devices shall have been officially adopted by the applicant for such permit and filed in the offices of the department." Further, I hereby acknowledge the requirement to provide Startup Notification (just prior to excavation) with the permit number and date of issuance and Completion Notification (upon completion of the project) with the permit number and date of issuance to the DEQ district office having jurisdiction for the project.  SIGNATURE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:  Name (Typed):       Phone: 734 794-6410 |

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Permit Application for Wastewater Systems (Continued)



**PROJECT BASIS OF DESIGN**

PROJECT NAME:

For this PROJECT the following information must be provided per Rule 35(3) of the Part 41 Administrative Rules of Act 451. Attach additional sheets as necessary.

A. A general map of the initial and ultimate service areas

Included on engineering plans       Attached separately

B. The design service area in acres Initial       Ultimate

C. The design population densities per acre Initial       Ultimate

D. 1. The ultimate design population       or total Residential Equivalent Units (REU)

2. The design per capita sewage contribution       (gpd) or design contribution per REU       (gpd)

E. The design commercial and industrial flow Initial

Ultimate

Mark this box if any commercial or industrial user(s) served by this project are subject to the federal categorical pretreatment standards or may discharge substances with the potential to interfere with the operation of the wastewater collection and/or treatment system.

F. Wastewater flow rates for proposed project

1. Initial design average flow       Units

2. Initial design peak flow       Units

3. Ultimate design average flow       Units

4. Ultimate design maximum flow (peak hour)       Units

G. An analysis, including calculations and/or flow monitoring, of the effect of the proposed additional flows on the receiving collection system.

H. For proposed pump stations and treatment facilities, attach a detailed explanation of steps to be taken in case of power failure or equipment breakdown, including a description of special reserve units available for emergency treatment, storage, and/or transportation of the wastewater.



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**REQUIRED NOTIFICATIONS**

Sample Notification Form

*Part 41, Sewerage Systems, of 1994 PA 451, as amended*

**NOT** To Be Submitted With Application

(For Construction Notifications)

The **permittee** shall provide Startup Notification just prior to excavation and Completion Notification upon completion of the project to the Part 41 Engineer in the local DEQ district office, Water Resources Division, by telephone, e-mail, or first class mail. This form or other format may be used as long as the permit number, date of issuance, project name, and type of notification (startup or completion) are provided.

**Permit No:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Issuance Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mark box to identify type of notification and enter date.

**Startup Notification**: Excavation will begin on or about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (date)

**Completion Notification**: Project was completed on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (date)

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_