



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 (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](#) (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 (select Water; then select Wastewater Construction) or click [here](#).

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).

PERMIT NUMBER (DEQ USE ONLY) P41002049		DATE OF ISSUANCE (DEQ USE ONLY) MAY 21, 2019	
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 Muskegon Department of Public Works 1350 E. Keating Avenue Muskegon, Michigan 49442		<div style="text-align: center;">Permit Stamp Area (DEQ use only)</div> <div style="text-align: center;">DEPARTMENT OF ENVIRONMENTAL QUALITY PERMIT NUMBER P4 1002049 MAY 21 2019 AUTHORIZING SEWERAGE SYSTEM CONSTRUCTION IN ACCORDANCE WITH ACT 451 PA 1994, PART 41</div>	
2. Owner's Contact Person (provide name for questions) Contact: Leo Evans, P.E. Phone: 231-724-6920			
3. Project Name (Provide phase number if project is segmented) Spring Street Sewer Reroute & Bourdon Street Alley Sewer (EGLE SRF #5675-01)		4. Project Location City of Muskegon	5. County (location of project) Muskegon

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

cc: Muskegon County Health Department
cc/enc: Mr. Ryan C. McEnhill, P.E., Eng., Inc.

Issued by: KRZLOPE

Reviewed by: KRZLOPE

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

GENERAL PERMIT CONDITIONS

- 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.
- 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.
- 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.
- 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.
- No sewer shall be placed into service unless and until the outlet sewer has been constructed, tested, and placed into service.
- Failure to meet any condition of this PERMIT or any requirement of Act 451 constitutes a violation of Act 451.
- 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).
- All earth changing activities must be conducted in accordance with Part 91, Soil Erosion and Sedimentation Control, of Act 451.
- All construction activity impacting wetlands shall be conducted in accordance with Part 303, Wetlands Protection, of Act 451.
- 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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6. **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.

IMPROVEMENTS TO AN EXISTING METER STATION LOCATED WEST OF SOUTHBOUND SHORELINE DRIVE.

858 LF OF 30 INCH (REPLACING EX. 24-INCH) SANITARY SEWER CROSSING FROM SOUTHBOUND SHORELINE DRIVE EAST TO THE CENTERLINE OF YUBA STREET, 190 LF OF WHICH IS BORE AND JACK.

25 LF OF 24 INCH (REPLACING EX. 24 INCH) SANITARY SEWER FROM THE CENTERLINE OF YUBA ST TO THE EAST CONNECTING TO AN EXISTING 24 INCH.

1,048 LF OF NEW 27 INCH SANITARY SEWER ON YUBA STREET FROM CEDAR STREET TO SPRING STREET WHICH IS CONVEYING REROUTED FLOW FROM THE SPRING STREET TRUNK LINE SEWER.

527 LF OF 8 INCH SANITARY SEWER ON SPRING STREET FROM CLAY AVENUE EAST TO EXISTING 8 INCH SANITARY SEWER

389 LF OF 18 INCH SANITARY SEWER ON SPRING STREET FROM CLAY AVENUE TO WESTERN AVENUE EXTENDED.

15 LF OF 12 INCH SANITARY SEWER ON SPRING STREET FROM SANITARY MANHOLE APPROXIMATELY 250 FEET NORTHEAST OF WESTERN AVENUE TO AN EXISTING 12 INCH SANITARY SEWER

15 LF OF 24 INCH SANITARY SEWER ON SPRING STREET FROM SANITARY MANHOLE APPROXIMATELY 250 FEET NORTHEAST OF WESTERN AVENUE TO EXISTING 24 INCH SANITARY SEWER.

345 LF OF NEW 8 INCH SANITARY SEWER ON PINE STREET SOUTHEAST OF WESTERN AVENUE TO REROUTE FLOW FROM THE EXISTING ALIGNMENT UNDER THE WITT BUICK BUILDING.

238 LF OF NEW 8 INCH SANITARY SEWER ON WESTERN AVENUE FROM PINE STREET NORTHEAST TO EXISTING 8 INCH SANITARY SEWER

365 LF OF 8 INCH (REPLACING EX. 8 INCH) SANITARY SEWER FROM FAIR AVENUE TO THE NORTH THROUGH THE PUBLIC RIGHT OF WAY ALLEY BETWEEN ADDISON STREET AND BOURDON STREET

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:

Ryan C. McEnhill, PE, Eng., Inc.
16930 Robbins Road, Suite 105
Grand Haven, MI 49417
616-743-7070
mcenhillr@engdot.com

8. Indicate who will prepare "as-built" plans for this project:

☒ Design Engineer in Box 7

☐ Other - name, organization, address, and phone no.:

9. Indicate who will provide project construction inspection:

☒ Engineering firm listed in Box 7

☐ Other - name, organization, address, and phone no.:

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

NOTE: If groundwater dewatering is expected, and especially if it may result in a large quantity withdrawal (greater than 70 gallons per minute), registration with the DEQ is required and a permit may be necessary. For more information, please contact the [Water Use Program staff](#). If a Part 327 permit is required, it may cause delay in issuance of a Part 41 permit, and/or result in project design revisions.

11. To which wastewater collection system will the project connect? Muskegon County

12. To which wastewater treatment system will the project connect? Muskegon County

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 517-284-5592 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.

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:

4490

gpm

23. Total capacity of the existing outlet sewer:

5328

gpm

24. Current peak hour flow into the existing outlet sewer:

3847

gpm

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: .

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:

- NPDES or Groundwater Discharge Permit No: _____ Permit Authorized Flow Rate: _____ Units: _____
- Local health department approval. **Include a copy of the approval with this application.**

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 (select Water; then select Wastewater Construction).

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.

☒ B. A contamination management plan is included for sites with known contamination (item 20). ☐ N.A.

☐ 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.

☒ E. Owner's certification signed and complete (item 32).

☒ 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.

☒ G. Final plans and specifications sealed and signed by a Michigan licensed professional engineer are provided.

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 _____ (title/position) for _____ (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: _____

5/10/19

DATE: _____

NAME (TYPED): LEO EVANS

PHONE: 231-724-6920

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PROJECT BASIS OF DESIGN

PROJECT NAME: Spring Street Sewer Reroute

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 X Attached separately
- B. The design service area in acres Initial _____ Ultimate _____ SEE NOTE BELOW
- 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 | <u>917</u> | Units <u>gpm</u> |
| 2. Initial design peak flow | <u>4490</u> | Units <u>gpm</u> |
| 3. Ultimate design average flow | <u>3847</u> | Units <u>gpm</u> |
| 4. Ultimate design maximum flow (peak hour) | <u>4490</u> | Units <u>gpm</u> |
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- G. An analysis, including calculations and/or flow monitoring, of the effect of the proposed additional flows on the receiving collection system. No change is anticipated at County Pump Station C
- 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.

SERVICE AREA AND REU ANALYSIS IN ACCORDANCE WITH THE CITY OF MUSKOGON
SRF PROJECT PLAN AND SAW GRANT PROJECT. RD 5/10/19



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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:** _____